ILLUSTRATED PARTS CATALOG

RECEIVER, RADIO
TYPE R-278B/GR

MANUFACTURED BY ACEC

SPECIFICATION : ENG-213 D
CONTRACT : A.F. 61 (514)-567
STOCK NUMBER : 1700 PE-908090

15 MARCH 1957

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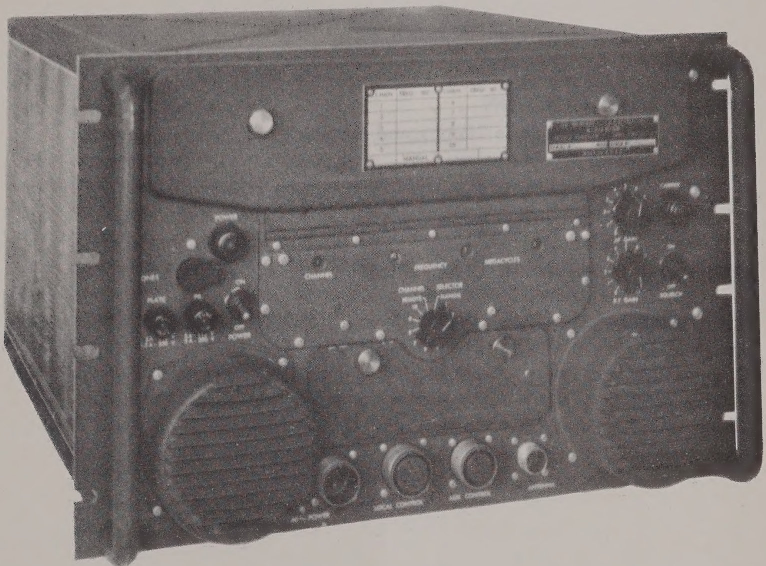

Figure 1. Radio Receiver R-278B/GR

1700PE - 908090, RECEIVER, RADIO : R-278B/GR : A2, A3 type of emission received, Ref Dwg Group 5 ; 225.0 to 399.9 mc, 1750 channels spaced 0.1 mc ; 600 ohms output impedance ; alternate operating power requirements ; 115v, 230v, 50/60 cycles, single phase ; 12-1/4 in. by 19 in. by 20 in. overall dimensions ; triple conversion superheterodyne system crystal controlled, motor driven frequency selector ; Exhibit ENG-213D, ACEC part/dwg no. 505 8197 006.

Section I (Introduction)

1-1. GENERAL.

1-2. This « Parts catalog » describes and illustrates all parts of the various components that comprise the RADIO RECEIVER R-278B/GR as manufactured by « Ateliers de Constructions Electriques de Charleroi (ACEC) » and is divided into four sections as shown in the table of contents.

1-3. This « Illustrated Parts Breakdown » covers the same equipment as « Handbook of Operation, Service and Repair Instruction » for RADIO RECEIVER R-278B/GR.

1-4. The « Component Parts List » contains a detailed breakdown for each unit listed in Table I.

TABLE 1

101- 199	RF Amplifier
201- 299	Main Oscillator
301- 399	Frequency Multiplier Amplifier
401- 499	1st IF Amplifier
501- 599	2nd IF Amplifier
601- 699	3rd IF Amplifier
801- 899	Audio Amplifier
901- 999	Power Supply Rectifier
1001-1099	Power Supply Filter
1101-1199	Frequency Selector Unit
1201-1299	Receiver Frame and Main Drive Gear
1301-1399	DF Signal Filter

1-5. The positioning of subassemblies on the Main Chassis of RADIO RECEIVER R-278B/GR is shown in figure 2.

1-6. The « Reference Symbol Number » consists of an alphabetical-numerical designation. The alphabetical portion is derived from « Specification MIL-STD-16 » : Reference designation for Electrical and Electronic Symbols. The numerical portion is established in accordance with the numerical series of reference symbols indicated in Table 1. Wherever it is necessary to reference a part, or silk screen the identification of a part on the equipment, the same symbol designation is used. A part appearing on a simplified schematic, a complete circuit diagram, a wiring diagram, a photograph, an exploded view, or in the « Component Parts List », will always be identified by means of the same symbol designation.

1-7. Items which can be considered fully interchangeable (identical) are identified by Collins (licensor) Rad part/dwg number; this number appears at the end of each description.

1-8. Items which are not fully interchangeable are identified by a part/dwg number prefixed by the letters ACEC; this number appears at the end of each description.

1-9. USAF Stock Numbers are only utilized for those items wich have been procured as Spare Parts of Subject contract. These parts are indicated by an asterisk in the column « Spare Parts » of the « Cross Index », section III.

1-10. The selection of approved item names has been accomplished in accordance with the « Federal Item Identification H 6-1 ».

1-11. Table 2 gives a complete list of vendor's names and adresses supplying parts for subject equipment, with the type of supplied components.

1-12. Abbreviations used in the descriptive portion of the « Component Parts List » are indicated in Table 3, section I.

1-13. USE OF CATALOG.

1-14. If in maintenance a detail part is lost, broken or found to be mechanically or electrically faulty, the necessary information to secure the correct replaceable part may be obtained by the following step.

1-15. When the contractor's part number is known and it is desired to find the illustration, locate the part number in the « Part-Number Cross Index, section III »; The Reference Symbol and the Illustration N^os^ are given on the same horizontal line.

1-16. When the part number or the reference symbol is not known, and it is desired to find the illustration, refer to figure 2 to identify unit for which replacement part is desired. Turn to figure indicated in identification list and obtain symbol from part located on illustration.

1-17. When the reference symbol is known, and it is desired to find Part-Number, Stock Number, Description or Source Code, turn to component Parts List. Locate Symbol in list arranged in alphabetical-numerical order.

1-18. ILLUSTRATIONS.

1-19. The illustrations are intended as visual aids for maintenance as well as for identification of parts. Illustrations are in the form of exploded view line drawings where mechanical dissassembly is complicated to the extent that reassembly after maintenance or repair would be a problem.

1-20. PART NUMBER CROSS-INDEX.

1-21. The numerical arrangement of part numbers begins as follows : Letters A through Z, then Numericals 0 through 9 (alphabetic O's are considered as numeric zeros). In second and succeeding positions the order of precedence is as follows : Space, Diagonal (/), Period (.), Dash (-), Letters A through Z, Numerals 0 through 9.

The second column is used as described in Paragraph 1-9. In third column are the Reference Symbol corresponding to the designed Part Number. Fourth and fifth column are respectively used to indicate the N° of illustrations in which the part appears and the total quantity of parts used in the equipment.

1-22. SPECIAL TOOLS.

1-23. This list consist of special tools required for the maintenance of the equipments covered by the catalog. No reference symbols are required.

1-24. REMARKS : The parts listed in subject catalog under ACEC Part Numbers or those items identified by USAF - PE Stock Numbers should be considered as usable only in the RADIO RECEIVER R-278B/GR equipment component manufactured by ACEC.

Table 2.

List of Vendor's Names, adresses and type of supplied components

ALLEN-BRADLEY Co.,	136 W. Greenfield Ave, MILWAUKEE 4, WISCONSIN	Resistor, variable Fixed Resistor
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI	Rue Vital Françoisse, MARCINELLE-CHARLEROI Belgium	Mechanical parts, Power transformers - Cables, Motors
ACCURATE PRODUCTS INC.	6518 N. Clark Street, CHICAGO 26, ILLINOIS	Rubber plug
AIRCRAFT RADIO CORPORATION	BOONTON, N. J.	Terminal (Steatite) Knob
ALL METAL SCREW PRODUCTS	821 Stewart Ave, GARDEN CITY, NEW-YORK.	Machine screw
ALUMINIUM COMPANY OF AMERICA	DAVENPORT, IOWA	Coil Shield
AMERICAN BRASS CO.,	26, Crane Street, WATERBURY 88, CONNECTICUT	Eyelet
AMERICAN HARD RUBBER COMPANY	11, Mercer Street, NEW-YORK 13, NEW-YORK	Rubber Washer
AMERICAN LAVA CORP.	Kruesi Building, CHATTANOOGA 5, TENNESSEE	Insulators
AMERICAN RIVET Co.,	849 N. Kedzie Ave, CHICAGO, ILLINOIS.	Rivet
AMERICAN RUBBER PRODUCTS COMPANY	LA PORTE, INDIANA	Rubber strip
AMERICAN SCREW COMPANY	589 E. Illinois Street CHICAGO 11, ILLINOIS	Machine screw
AMERICAN PHENOLIC CORPORATION	1830 S. 54th Ave, CHICAGO 50, ILLINOIS	Connector Tube Shield Hook up wire Tube socket
AMERICAN RADIO HARDWARE Co. INC.	152 Mc Questen PKway, MOUNT-VERNON, NEW-YORK	Connector
S. W. ANDERSON	314 Circle Ave, FOREST PARK, ILLINOIS	Spring

Table 2
List of Vendor's Names, adresses
and type of supplied components

ANTI-CORROSIVE METAL PRODS, Co., INC.,	P. O. Box 870, ALBANY, NEW-YORK	Taper pin Machine screw
ARMSTRONG CORK Co.,	13-136 Merchandise Mart Merchandise Mart Plaza CHICAGO 54, ILLINOIS	Solder lug
ARROW-HART and HEGEMAN ELECTRIC Co.,	103 Hawthorn Street, HARTFORD 6, CONNECTICUT	Switch
ASSOCIATED RUBBER PRODUCTS COMPANY	2671, Washington Blvd, St-LOUIS 3, MISSOURI	Rubber channel
ATLANTIC INDIA RUBBER WORKS Inc.,	571 w. Polk Street, CHICAGO II, ILLINOIS	Bumper
AUTOMATIC ELECTRIC MFG. Co.,	62, State St., MANKATO, MINNESOTA	Relay
AUVELAIS (FEUTRERIES D')	AUVELAIS, BELGIUM	Felt, Fiber glass.
The BADGETT STEAM LUBRICATOR Co.,	1701, Park Ave, CHICKASHA, OKIAOMA	Captive nut.
BARDWELL and Mc ALLISTER	2950 Ontario Street, BURBANK, CALIFORNIA	Fastener (Insert)
BENTLEY-HARRIS Mfg. Co.,	CONSHOHOCKEN, PENNSYLVANIA	Sleeving
BERGOUGNAN	EVERGHEM (Rabot-lez-Gand) BELGIUM.	Rubber gasket, washer Molder grommet
The BIRTCHER Corp.	4371 Valley Blvd, LOS ANGELES 32, CALIFORNIA	Clamp
BIRD ELECTRONIC CORPORATION	1800 E. 38th Street CLEVELAND, 14, OHIO	R. F. Filter
BLAIR Mfg. Co.,	1114 5th Ave, SCUTH BIRMINGHAM, ALABAMA	Washer - Tension washer
BLILEY ELECTRIC Co.,	Union Station Bldg, ERIE. P. A.	Crystal unit (Quartz)
BORG EQUIPMENT	120, S. Main Street, JANESVILLE, WISCONSIN	Special resistor
BOUND-BROOK OIL-LESS BEARING Co.,	BOUND-BROOK NEW-JERSEY	Bearing
THE BRISTOL Co.,	66, Bride Street WATERBURY 91, CONNECTICUT	Wrench - Screw - Socket head cap screw Set screw

Table 2
List of Vendor's Names, adresses and type of supplied components

BELL TELEPHONE Mfg. Co., S. A.	4, Rue Boudewijns, ANTWERP, BELGIUM	Connector
BUCKBEE MEARS Co.,	Lindecke Building, St-PAUL, MINNESOTA	Wire Cloth
BURLINGTON INSTRUMENT COMPANY	203 N. Third Street, BURLINGTON, IOWA	Meter
BUSSMAN Mfg. Co.,	UNIVERSITY At JEFFERSON, St-LOUIS 7, MO.	Fuse holder, Fuse
CAMBRIDGE THERMIONIC CORP.,	445 Concord Ave, CAMBRIDGE 38, MASS.	Coil form (adjustable) Turret lug - Nut Spring
CAMCAR SCREW and Mfg. CORP.	600, 18th Ave, ROCKFORD, ILLINOIS	Screw
CARBORUNDUM Co.,	3335, 47th Street CHICAGO 32, ILLINOIS	Thermal resistor
CENTRALAB A Division of Globe-Union Inc.	914 F. E. Keefe Ave, MILWAUKEE, 1, WISCONSIN	Ceramic Capacitor Insulator-Bushing Standoff Switch
CENTRAL SCREW Co.,	3501, Shields Ave, CHICAGO 9, ILLINOIS	Machine Screw
CHICAGO RIVET MACHINE COMPANY	9600 W. Jackson Blvd BELLWOOD, ILLINOIS	Rivet
CHICAGO STANDARD TRANSFORMER CORP.,	3501 Addison Street CHICAGO 18, ILLINOIS	Filament transformer Power transformer Plate transformer Audio transformer
CHRYSLER CORP. AMPLEX DIVISION	P. O. Box 2718 DETROIT 31, MICHIGAN	Bearing
CIMA CORP.,	119, Braintree St., ALLSTON 34, MASS.	Fixed wire wound resistor
CINCH Mfg. CORP.,	1026 S. Homan Ave., CHICAGO 24, ILLINOIS	Shorting link clamp - Snap button
C. P. CLARE And Co.,	4719 Sunnyside Ave, CHICAGO 30, ILLINOIS	Relay
CLAROSTAT Mfg. Co., INC.	DOVER, NEW HAMPSHIRE	Resistor variable Fixed wire wound resistor Power rheostat

Table 2
List of Vendor's Names, adresses
and type of supplied components

COLLINS RADIO Co.,	CEDAR RAPIDS, IOWA	Special parts UHF material
COMAG COMPANY	2738 Mc Gee Traffic-Way KANSAS CITY 8, MISSOURI	Corprene washer
COMMUNICATION COIL COMPANY	2893 N. Narragansett Ave, CHICAGO 34, ILLINOIS	Powdered iron core, Coil, Coil form
CONTINENTAL SCREW Co.,	NEW BEDFORD, MASSACHUSSETS	Machine screw
CORNELL DUBILIER ELECTRIC CORP.	333, Hamilton Boulevard SOUTH PLAINFIELD, 6, N.-J.	Paper capacitor Mica capacitor
CORNING GLASS WORKS	CORNING, New-York	Glass insulator
CRONAME INC.,	3701, Ravenswood Ave, CHICAGO, ILLINOIS	Jack cover
CHICAGO TELEPHONE SUPPLY CORP.,	1142 W. Beandsley Ave, ELKHART, INDIANA	Resistor, variable
CUTLER-HAMMER	220, Main Street, DAVENPORT, IOWA	Switch
DALE PRODUCTS Co.,	P. O. Box 136 1316, 28th Ave, COLUMBUS, NEBRASKA	Fixed wire wound resistor
DELEVAN ELECTRONICS CORP.	Main and Grove Streets, EAST AURORA, NEW-YORK	R. F. choke
Ets. DEVILLE	SENZEILLES, BELGIUM	Bag.
DIALIGHT CORP.,	60, Stewart Ave, BROOKLYN 37, N.-Y.	Lens Indicator Pilot light socket Pilot light
DIEBEL DIE and Mfg.,	2711 W. Irving Park Road, CHICAGO 18, ILLINOIS	Washer
DIEHL Mfg., Co.,	1129, Finderne Ave, SOMERVILLE, New-Jersey	Motor
DZUS FASTENER	Guilferd Road Surrey ENGLAND	Fastener
EDWIN B. STIMPSON COMPANY	70, Franklin Ave, BROOKLYN 5, NEW-YORK	Eyelet
EBY Co., HUGH H.	4700 Stenton Ave., PHILADELPHIA 44, PA.	Crystal socket

Table 2
List of Vendor's Names, adresses
and type of supplied components

SOCIETE D'ETUDES de CONDENSATEURS	Rue des Fusillés, 9 et 11, LE KREMLIN-BICETRE, SEINE (France)	Paper capacitor clamp
EITEL Mc CULLOUCH INC.,	SAN BRUNO, California	Electron tube Tube connector
ELASTIC STOP NUT CORPORATION	2330, VAUXHALL Road, UNION, NEW-JERSEY	Rollpin
ELCO CORPORATION	190, W. Clenwood Ave., PHILADELPHIA 40, PA.	Tube shield Tube socket
ELCO TOOL and SCREW COMPANY	1900 Broadway ROCKFORD, ILLINOIS	Machine Screw
ELECTRONS Inc.,	127, Sussex Ave., NEWARK 4, NEW-JERSEY	Electron tube
EASTERN PRECISION RESISTOR Co.,	130-11 90 th Ave, RICHMOND HILL 18, N.-Y.	Fixed wire wound resistor
ERIE RESISTOR CORPORATION	644 w., 12th Street ERIE, PA,	Ceramic capacitor
ERIE RESISTOR Ltd.	Carlisle Road The Hyde, LONDON Nw 9, ENGLAND	
THE FARR Co.,	2615 Southwest Drive, LOS ANGELES 43, CALIFORNIA	Air Cleaner
ACCURATE FELT and GASKET Co., INC.	131, N. Green Street CHICAGO 7, ILLINOIS	Gasket
FELT PRODUCTS Mfg. Co.,	1504-16 Carroll Ave., CHICAGO 7, ILLINOIS	Insulating washer
FISCHER SPECIAL Mfg. COMPANY	416 Morgan Street CINCINNATI, OHIO	Machine screw nut
GASKET ENGR. COMPANY	2444 Charlotte Street KANSAS CITY, 8, MISSOURI	Rubber gasket Corprene washer
GENERAL ELECTRIC COMPANY	805 Dows Building CEDAR RAPIDS, IOWA	Pilot light Motor
GENERAL ELECTRIC COMPANY WIRING DEVICE DEPT	95, Hathaway Street PROVIDENCE 7, RHODE-ISLAND	Wiring device
GENERAL Mfg. CORP.	4840 N. Linder Ave., CHICAGO 30, ILLINOIS	Captive Screw
GENERAL CABLE CORP.	420 Lexington Ave., NEW-YORK, 17, N.-Y.	Multi-wire cable

Table 2
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GENERAL CEMENT Mfg. C.,	ROCKFORD, ILLINOIS.	Dial cable
John GILLEN Co.,	2540 S. 50 th Ave, CICERO 50, ILLINOIS	Groov pin
Usines GILSON	LA CROYERE, BELGIUM	Wrench
Sylvan GINSBURY 8 W.	40 th Street NEW-YORK, 18	Ceramic bushing
GLOBE MACHINERY and SUPPLY COMPANY	309-313 Eighth Ave, S. E. CEDAR RAPIDS, IOWA	Eye bolt
GRAYBAR ELECTRIC Co.,	210 E 5th Street DAVENPORT, Iowa	Fuse clip
GRIGSBY-ALLYSON Co., INC.	470 N., Salem Ave, ARLINGTON HEIGHTS, ILLINOIS	Switch
GROOV-PIN CORP.	1125 Hendricks Causeway RIDGEFIELD, NEW-JERSEY	Groov-pin
GUARDIAN ELECTRIC Mfg. Co.,	1625-BG W. Walnut Street CHICAGO 12, ILLINOIS	Relay
HARPER Mfg. Co.,	NAUMER, OHIO	Lock washer
HARVEY HUBBELL INC.	State & Thomas Streets BRIDGEPOORT 5, CONNECTICUT	Soldering Lug
HARVEY VOGEL INC.	2577 Como Ave, St-PAUL, MINNESOTA	Clamp
HEINEMANN ELECTRIC Co.,	939 Plum Street TRENTON 2, NEW-JERSEY	Circuit breaker
HELIPOT CORP.,	916, Meridian Ave., SOUTH PASADENA CALIFORNIA	Resistor variable
Hi-Q DIVISION (Farad) AEROVOX CORPORATION	Seneca Avenue, OLEAN, NEW-YORK	Ceramic Capacitor
E. F. HOUGHTON And Co.,	303 W. Lehigh Ave., PHILADELPHIA, 33, PENNSYLVANIA	Rubber gasket
HOWARD B. JONES CORP. Export. Dpt	2018 Eng. Building CHICAGO, ILLINOIS	Terminal Strip
HUBBELL METALS Inc.,	P. O. Box 447, St-Louis, 3, MISSOURI	Washer
INDIANA METAL PRODS. CORP.	919 N. Michigan Ave., CHICAGO 11, ILLINOIS	Machine screw

Table 2
List of Vendor's Names, adresses and type of supplied components

INDUCTION MOTORS CORP.	55-15 37th Ave, WOODSIDE 77, N.-Y.	Motor
INDUSTRIAL SCREW Co.,	711 West Lake Street CHICAGO 6, ILLINOIS	Retaining ring
INLAND AUTOMATIC INC.	1108 Jackson Street OMAHA 8, NEBRASKA	Locking nut
INTERNATIONAL RESISTANCE Co.,	401 N., Broad Street PHILADELPHIA 8, PA.	Carbon Resistor Fixed wire wound resistor
IRVINGTON VARNIS Fr. INS Co INTERNATIONAL OFFICE	92, Park Avenue NEW-YORK, N.-Y.	Plastic tubing Plastic marker
Albert JEANRENAUD	DOLE (JURA) France	Switch Spacer Phenolic washer
JEFFERS ELECTRONICS Div. of Speer Carbon Co.,	DU BOIS, PA.	R. F. Choke
JOHNSON Co., E. F.	WASECA, MINN.	Connector Tube socket
JONES ELECTRONICS Co., Inc., Mc.	96, N. Main Street BRISTOL, CONN.	R. F. Monitor Unit
KINGS ELECTRONICS Co.,	40, Marbledale Rd, TUCKAHOE, N.-Y.	Connectors
KNIGHTS Co, JAMES	131 S. Wells St. SANDWICH, ILL.	Crystal unit (Quartz)
Ets LANGRAND	Boulevard Tirou, CHARLEROI, BELGIUM	Cloth Bag
LAVELLE RUBBER Co.,	424 N. Wood Street CHICAGO 22, ILLINOIS	Grommet
LEWIS SPRING Mfg. COMPANY	2652 W. North Ave, CHICAGO 47, ILLINOIS	Spring, precision and special type
LION FASTENER Inc.,	HONGOYE FALLS, NEW-YORK	Fastener
LITTELFUSE INC.,	4757 RAVENSWOOD Ave, CHICAGO, 40, ILLINOIS.	Fuse
MACHLETT LABORATORIES INC.	SPRINGDALE CONNECTICUT	Electron Tube

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P. R. MALLORY and Co.,	3029 E. Washington St. INDIANAPOLIS 6, INDIANA	Phone Jack Bushing Fixed wire wound resistor
METAL MARKER Mfg. COMPANY	1384E 40 Th Street CLEVELAND, 3, OHIO	Marker
MEPCO INC.,	35-37 Abbet Ave, MORRISTOWN, NEW-JERSEY	Fixed wire wound resistor
METAGRA	1, rue de la Raquette GENT (BELGIUM)	Name plate Schematic plate
METAL TEXTILE CORP.	647, F. First Ave., ROSELLE, New-Jersey	Washer
MIAL	Via Rovetta, 18, MILAN, ITALY	Mica capacitor
MICAMOLD RADIO CORP.	1087, Flushing Ave, BROOKLYN 6, N.-Y.	Paper capacitor
MICHIGAN MOLDED PLASTICS INC.	G. and Baker Streets DEXTER, MICHIGAN	Molded plastic device
MICRO-SWITCH Division of Minneapolis-Honeywell Regulator Co.,	2753, 4th Avenue SOUTH MINNEAPOLIS 8, MINN.	Switch
MIDLAND Mfg. Co., INC.	Sunshine and Fiberglas, 3155, Fiberglas Road KANSAS CITY, KANSAS	Crystal unit (Quartz)
MILLEN Mfg. Co., JAMES	150, Exchange Street MALDEN, MASS.	Ceramic device
NATIONAL COMPANY, INC.,	61, Sherman Str. WALDEN 48, MASS.	Grid clip
NATIONAL COIL Co.,	P. O. Box 1237, SHERIDAN, WYOMING	R. F. choke
NATIONAL LOCK WASHER COMPANY	241 East Erie Street MILWAUKEE, WISCONSIN	Washer
NATIONAL RIVET and Mfg. COMPANY	1-21 E. Jefferson Street WAUPUN, WISCONSIN	Rivet
NEW-JERSEY RIVET CORPORATION	P. O. Box 2 CAMDEN 1, NEW-JERSEY	Rivet
NORMA HOFFMAN BEARING CORP.	HAMILTON Ave, SPAMFORD	Bearing

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List of Vendor's Names, adresses
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OAK Mfg. Co.,	1260 N. Clybourn Ave, CHICAGO, 10, ILLINOIS	Switch
OHIO NUT AND BOLT Co.,	33, First Ave, BEREA, OHIO	Weld bolt
PATTON Mc GUYER Co.,	Edgewood Station PROVIDENCE, RHODE ISLAND	Solder lug
POTTER and BRUMFIELD	617 N. Gibson Street PRINCETON, INDIANA	Relay
PENN ENGINEERING and Mfg. CORP.	Box 311, DOYLESTOWN, PENNSYLVANIA	Fastener
PHAOSTRON Co.,	151 Pasadena Ave, SOUTH PASADENA, CALIFORNIA	Fixed resistor
PHEOLL Mfg. Co.,	5700 Roosevelt Road CHICAGO, 50, ILLINOIS	Machine Screw nut Special machine screw Wing nut - cap nut
PRECISION RUBBER PRODUCTS COMPANY	Room 2049 400 w. Madison CHICAGO, 6, ILLINOIS	Rubber gasket Shielded wire
RADIO FREQUENCY LABS. INC.	BOOTON 2, NEW-JERSEY	Seal nut
RADIO CORPORATION OF AMERICA Victor Div. Tube Dpt	HARRISON, NEW-JERSEY	Electron tube
RECESSED Screw COMPANY INC.,	426, Broome Street NEW-YORG, 13, NEW-YORK	Machine screw
RESISTA FABRIK ELEK. WIDERSTANDE	LANDSHUT /B GERMANY	Fixed resistor
RESISTORS INC.,	5226 W. 26th Street CHICAGO 50, ILLINOIS	Fixed wire wound resistor
REVERE CAMERA Co,	320E 21st Street CHICAGO 16, ILLINOIS	Nut
ROCKFORD Screw PRODUCTS Co.,	2501, 9th Street ROCKFORD, ILLINOIS	Machine Screw
JOHNSON RUBBER Co,	111, Vine Street MIDDLEFIELD, OHIO	Rubber channel
SADIR CARPENTIER	Bd Murat, PARIS (XVI^{e}) FRANCE	Electron tube
SAGE ELECTRONIC CORP.	302 N. GOODMAN Street, ROCHESTER 7, NEW-YORK	Fixed wire wound resistor

Table 2
List of Vendor's Names, adresses
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SANGAMO ELECTRIC Co, Capacitor Division	MARION, ILLINOIS	Mica Capacitor
J. P. SEEBURG CORP.	CHICAGO, ILLINOIS	PHENOLIC Washer
SET SCREW and Mfg. Co.,	26, Main Street, BARLETT, ILLINOIS	Stud Socket head cap Set screw
SOCIETE FRANÇAISE RADIO-ELECTRIQUE	79, Bd Hausman PARIS (XVII^e) FRANCE	Electron tube
SHAKEPROOF INC.,	St-Charles Road ELGIN, ILLINOIS	Washers Terminal lug Shakeproof soldering lug
H. B. SHERMAN Mfg. COMPANY	1934 Sperry Street BOTTLE CREEK, MICHIGAN	Soldering lug
UNITED SHOE MACHINERY CORPORATION	600 W. Jackson Blvd CHICAGO 6, ILLINOIS	Eyelet
SMITH FILTER Co.,	1603 Second Ave., MOLINE, ILLINOIS	Air Filter
SPRAGUE ELECTRIC Co.,	125 Marshall Str., NORTH ADAMS, MASS.	Paper capacitor Fixed wire wound resistor Suppressor
Sté STEAFIX	17, rue Francœur PARIS (XVIII^e) FRANCE	Mica capacitor
STEEL SALES CORP.,	3348S. Puluski Road CHICAGO, 80, ILLINOIS	Rivet
STETTNER and Co.,	LAUF bei NURBERG GERMANY	Ceramic capacitor
STEVENS Mfg. Co., INC.	RICHLAND TRUST Bldg 69 S. Walnut St. MANFIELD, OHIO	Thermostatic Switch
STANDARD TELEPHONE AND RADIO	SEESTRASSE, 395 ZURICH, 2, SWITZERLAND	Paper capacitor
STRONGHOLD SCREW PRODUCTS	216 W. HUBBARD Street CHICAGO, 10, ILLINOIS	Special screw
STUPAKOFF CERAMIC and Mfg. Co.	LATROBE, PA.	Ceramic bushings Ceramic Standoff Kovar terminal
The SUPERIOR ELECTRIC Co.,	83, Moadow Str. BRISTOL, CONN.	Binding post
SYLVANIA ELECTRIC PRODUCTS Co.,	2001 North Corneel MELROSE PARK, ILLINOIS	Connector

Table 2
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THOMAS A. EDISON, INC.	304 W. Randolph Str., CHICAGO 6, ILLINOIS	Relay
TINNERMAN PRODUCTS INC.	Post Box 6888 Dep. 16 Cleveland, 1, OHIO	Clamp
TRIGON SPECIALTIES COMPANY	1005 S. Lafayette Blvd SOUTH BEND, INDIANA	Captive nut
USINE METALLURGIQUE DOLOISE	DOLE (JURA) France	Phenolic Knob
UNITED SCREW and BOLT CORPORATION	2513 W. Cullerton Street CHICAGO, 8, ILLINOIS	Screw, bolt and hardware Nut
UNIVERSAL SCREW Co	127 S. Green Street CHICAGO, 7, ILLINOIS	Washer - Machine screw
U. S. RUBBER Co.,	ROOM 352 Merchandise Mart CHICAGO, 54, ILLINOIS	Rubber strip
VACO PRODUCTS Co.,	310 E. ONTARIO St., CHICAGO, 11, ILLINOIS	Phillips screw driver Tools
VARFLEX CORPS	ROME, NEW-YORK	Sleeving
WALDES-KOH-I-NOOR INC.	47-16 Austel Place LONG ISLAND CITY, 1 NEW-YORK	Retaining ring
WALTHAM HOROLOGICAL CORP.	711, Broad Street LYNN, MASS.	Connector
WESTERN ELECTRIC Co, through GRAYBAR ELECTRIC Co., INC.	850 W Jackson Blvd CHICAGO, 7, ILLINOIS	Thermal resistor
WENCO Mfg. Co.,	1130-1134 W. Hubbard Str. CHICAGO, 22, ILLINOIS	Spade bolt
WHITSO INC.	2037 Churchill Str. CHICAGO, 47, ILLINOIS	Standoff terminal Insulated terminal
WOLFERS	Rue d'Aremberg, 13, BRUXELLES, BELGIUM	Mechanical parts (treated)
WRIGHT ELECTRONIC DEVELOPMENT Co.,	1519 Mc Gee St., KANSAS CITY, 7, MO.	Crystal unit (Quartz)
WROUGHT WASHER Mfg. COMPANY	2100 South Bay Street MILWAUKEE 7, WISCONSIN	Split lock washer Tension washer
ZIERICK Mfg. Corp.	BEECHWOOD and ROCKDALE Ave NEW ROCHELLE, NEW-YORK	Solder lug

Table 3
List of abbreviations

List of abbreviations

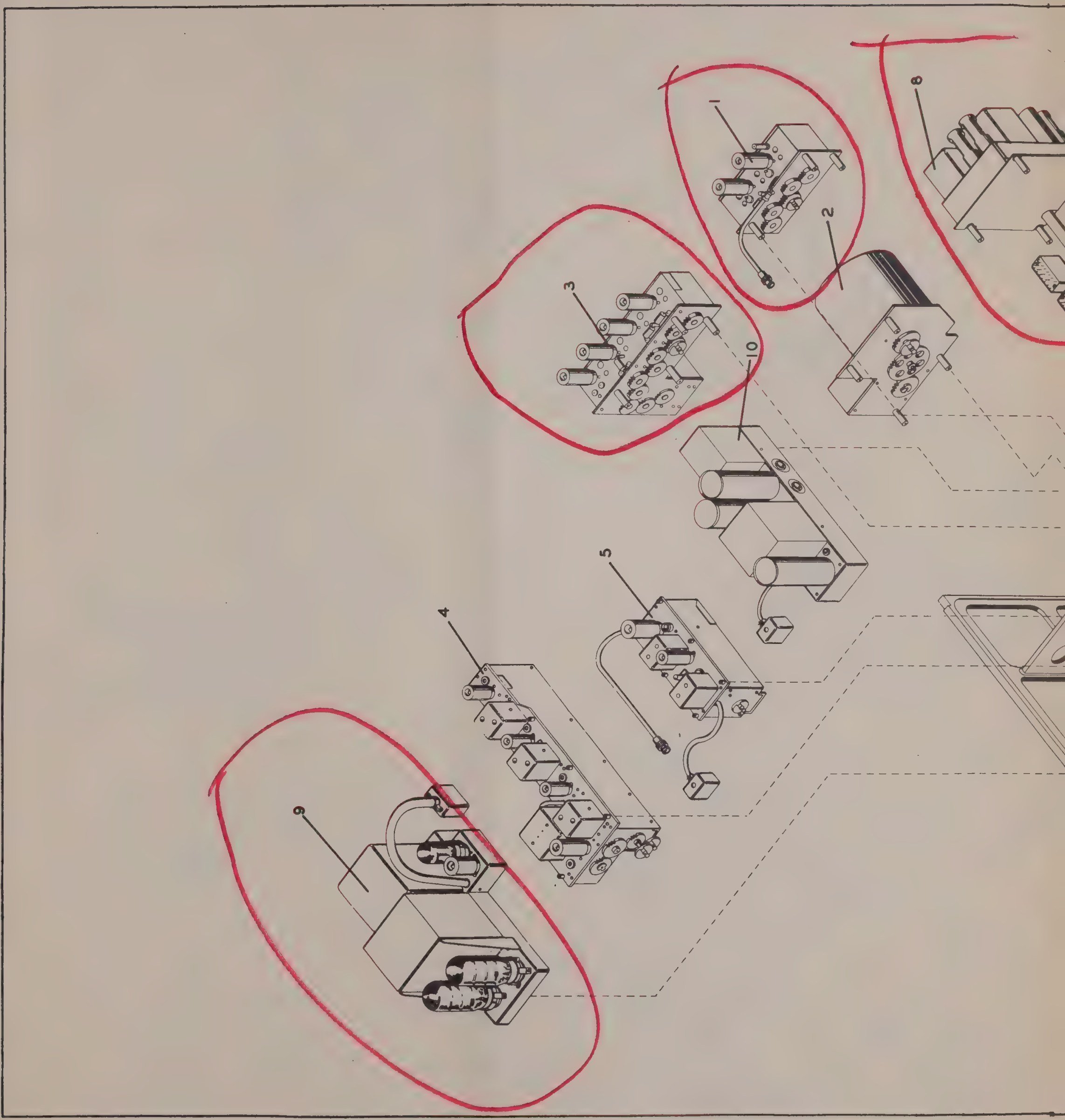
ABBREVIATION	SIGNIFICATION	ABBREVIATION	SIGNIFICATION
AC	Alternating Current	E	Enamel, Enameled
accom	accomodates	ea	each
adj	adjustable	encl	enclosed, enclosure
alt	alternative	ext	external
AM	Amplitude Modulation	F	Fahrenheit
amp	ampere	FH	Flat Head
ampl	amplifier	Fil	Fillister
AN	Army - Navy	fl	flange,
appl	applied, apply, application	FMS	From Mounting Surface
approx	approximate approximately	fp	fungus proof
assem, assy	assembly	fr	fungi resistant
AWG	American Wire Gauge	freq	frequency
bkt	bracket	ft	foot (feet)
brg	bearing	ga	gauge
C	Centigrade	gnd	ground, grounded
cad pl	cadmium plated	H	Head
ccw	counter - clockwise	h	height
c/o	consist of	hex	hexagon, hexagonal
coeff	coefficient	HF	High Frequency
com	commercial	hp	horsepower
cond	conductor	HS	Hermetically Sealed
cont	contact	hy	henry
corr	corrosion	ID	Inside Diameter
cps	cycle per second	IF	Intermediate Frequency
CRS	Corrosion Resistant Steel	impr	impregnated, impregnant
csk	countersink	in, "	inch (inches)
CT	Center Tap	incl	include, includes, included, inclusive, including
ctb	counterbore	ins	insulation, insulated
c to c	center to center	int	internal
ctr	center	kc	kilocycle
cur	current	lg	long, length
CW	Continuous Wave	LH	Left Hand
cw	clockwise	ma	milliampere
cyc	cycle	max	maximum
cyl	cylindrical	mc	megacycle
d	deep	med	medium
db	decibel(s)	mf	microfarad
DC	Direct Current	mh	millihenry
deg	degree (angle)	min	minimum
°	degree (temperature)	mmf	micromicrofarad
diam	diameter	mtd	mounted
dim	dimension	mtg	mounting
DPDT	Double Pole Double Throw		
DPST	Double Pole Single Throw		
dwg	drawing		

Table 3
List of abbreviations

ABBREVIATION	SIGNIFICATION
mtg/c	mounting center
mtl	material
mts	mounts
mult	multiplier
mw	milliwatt
NC	American National Coarse Thread
NEF	American National Extra Fine Thread
neg	negative
NF	American National Fine Thread
N°, #	number
nom	nominal
NS	American National Special Thread
o/a	Over - all
OD	Outside Diameter
%	per cent
oper	operating
osc	oscillator
oz	ounce
oz - in	ounce per inch
PD	Pitch Diameter
pf	power factor
ph	phase
pl	plated
p/m, ±	plus or minus
p/o	part of
pol	pole
pos	positive
pri	primary
qty	quantity
rad	radius
rd	round
rect	rectifier
res	resistant
RF	Radio Frequency
RH	Right Hand
RMS	Root Mean Square
rpm	revolutions per minute
RSW	Resistant to Salt Water
RTH	Resistant To Humidity
scdr	screwdriver
sec	second (unit of time)
secd	secondary
SPDT	Single Pole Double Throw
spec	specification
SPST	Single Pole Single Throw
sq	square
SS	Stainless Steel
std	standard
sw	switch
sym	symmetrical, symmetrically
syn	synthetic
temp	temperature
term	terminal
thd	thread, threaded
thru	through
tol	tolerance
tw	twisted
uh	microhenry
UHF	Ultra High Frequency
UNC	Unified Coarse
UNF	Unified Fine
unins	uninsulated
u/o	used on
uv	microvolt
u/w	used with
v	volt
vacw	voltage alternating current working
var	variable
vdcw	voltage direct current working
VHF	Very High Frequency
w	watt
w/	with
wd	width, wide
wnd	wound
w/o	without
WW	Wire Wound
Xmtr	Transmitter
Xtal	Crystal

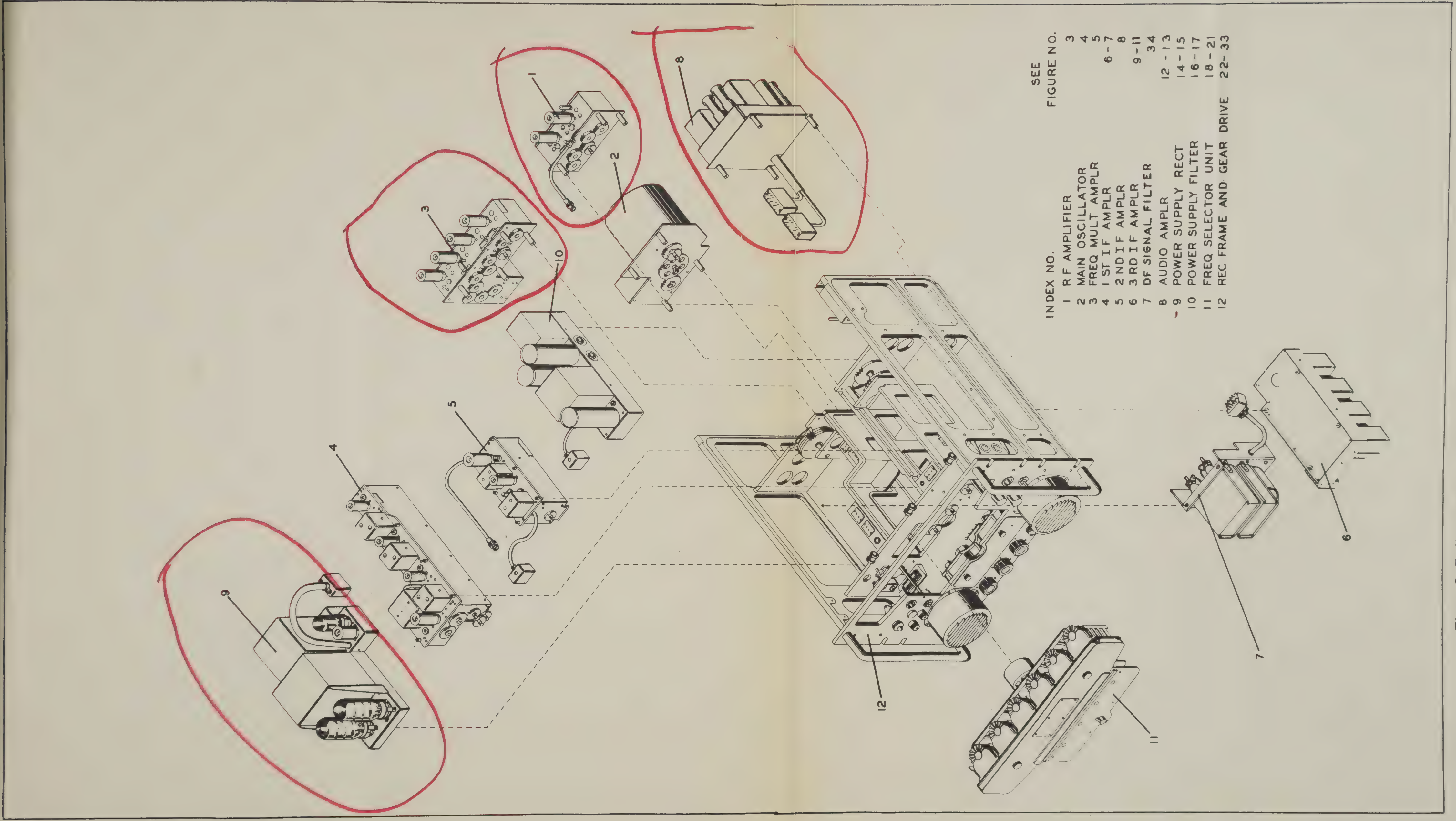
SECTION II

ILLUSTRATIONS AND COMPONENT PARTS LIST



SECTION II

ILLUSTRATIONS AND COMPONENT PARTS LIST



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3	FREQ MULT AMPLR	5
4	1 ST I F AMPLR	6 - 7
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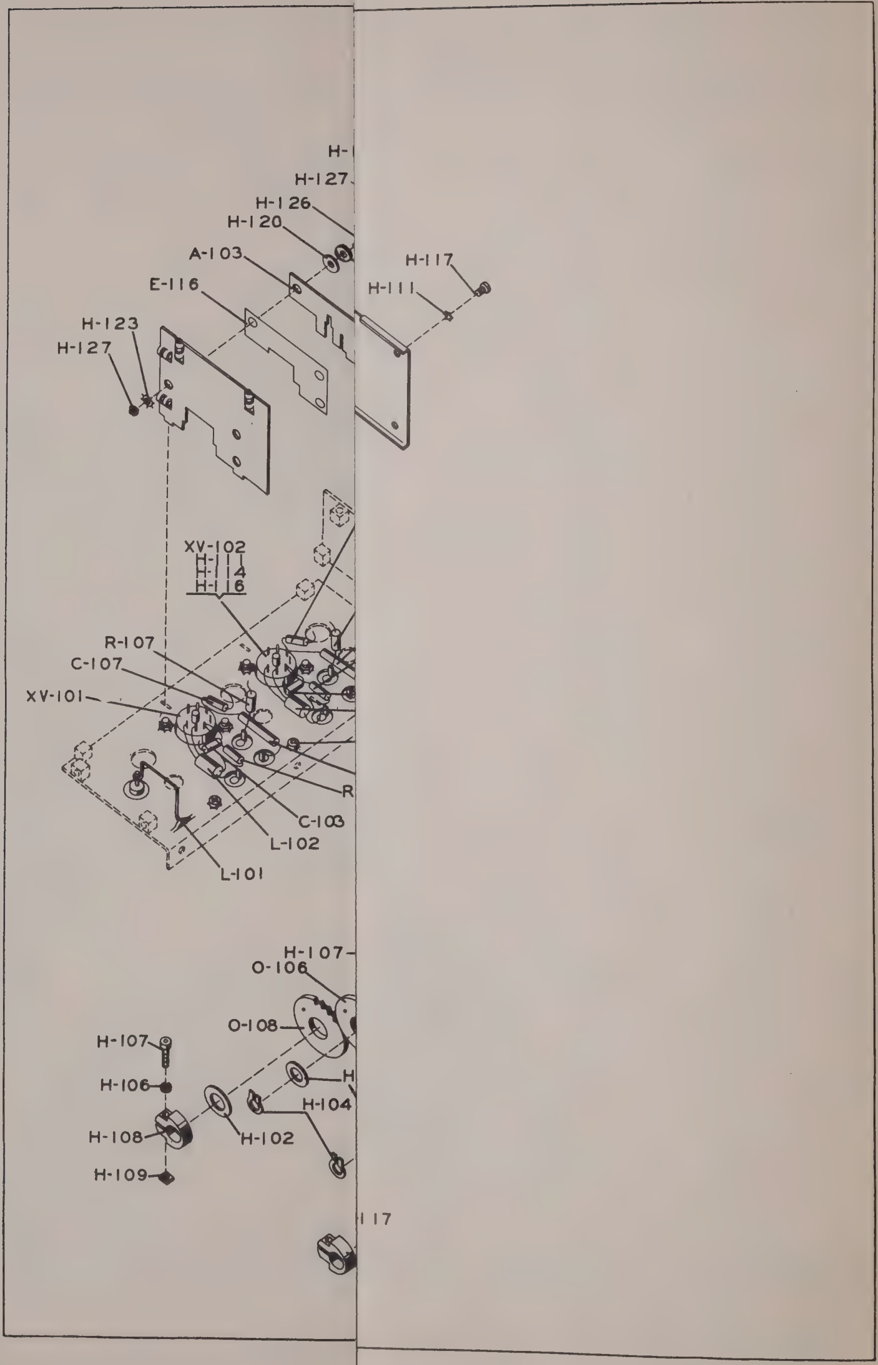
Figure 2. Radio Receiver R-278B/GR, Subassemblies Lifted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H
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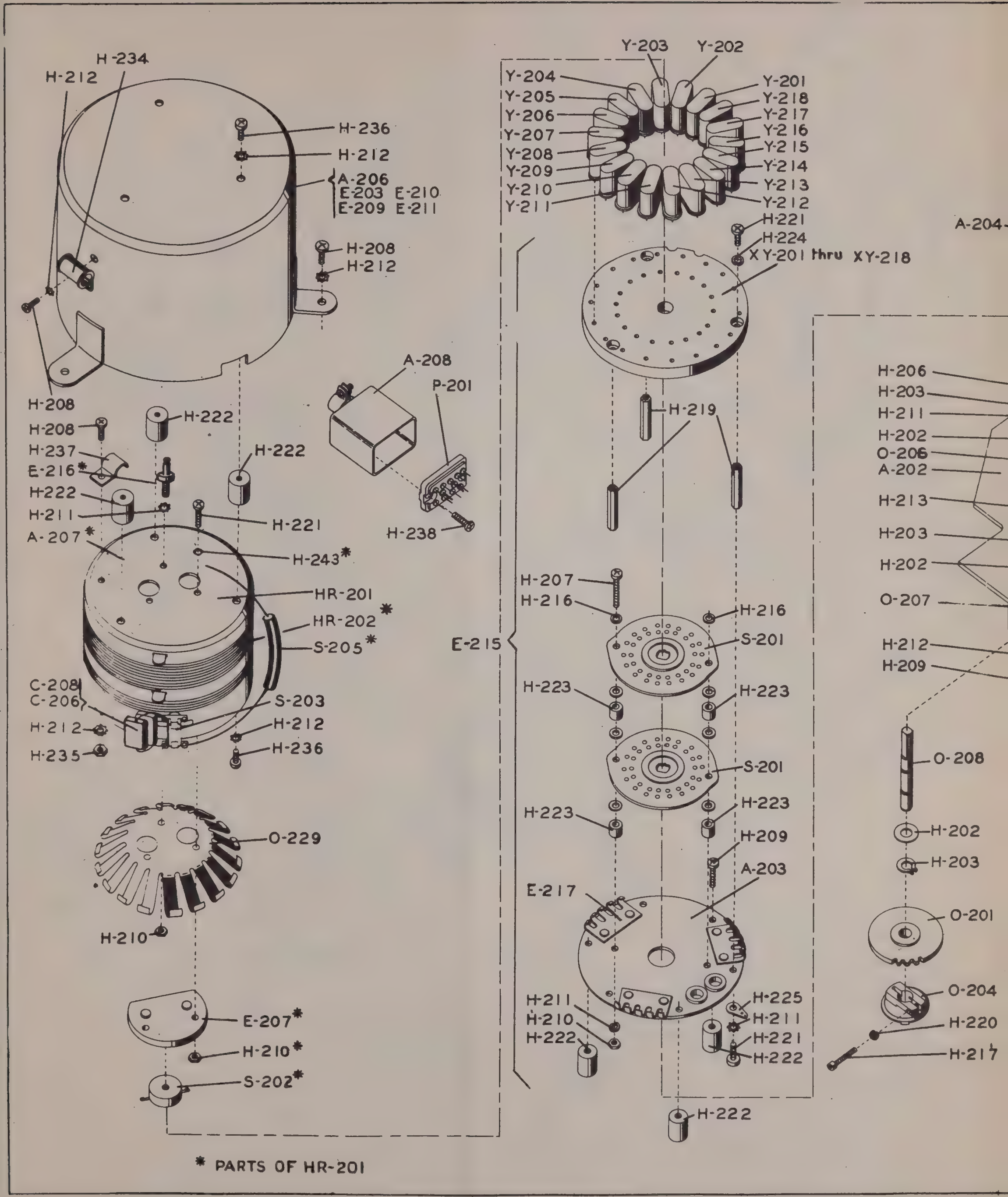
Amplifier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* PARTS OF HR-201

Figure 4. Main Oscillator

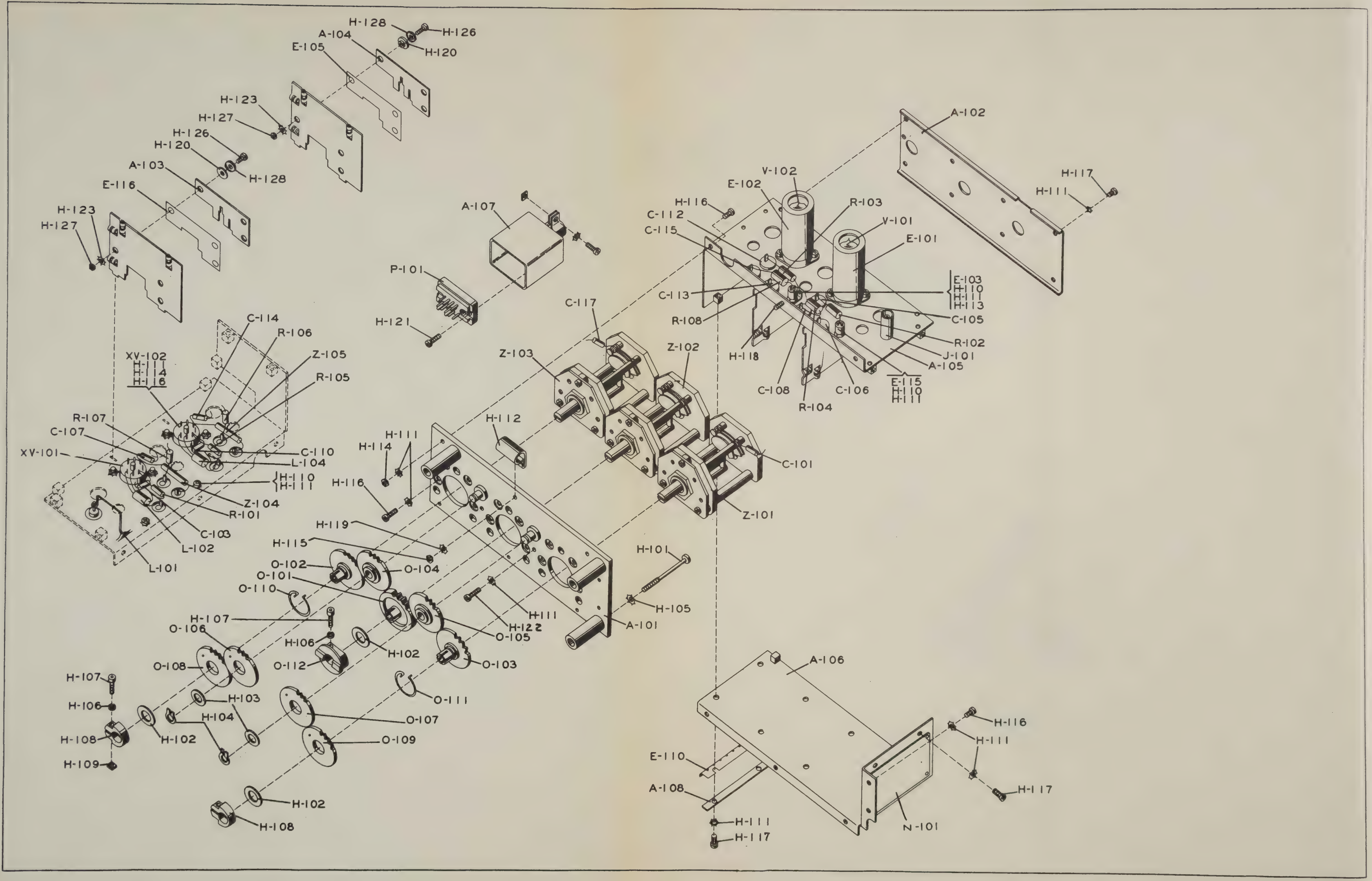
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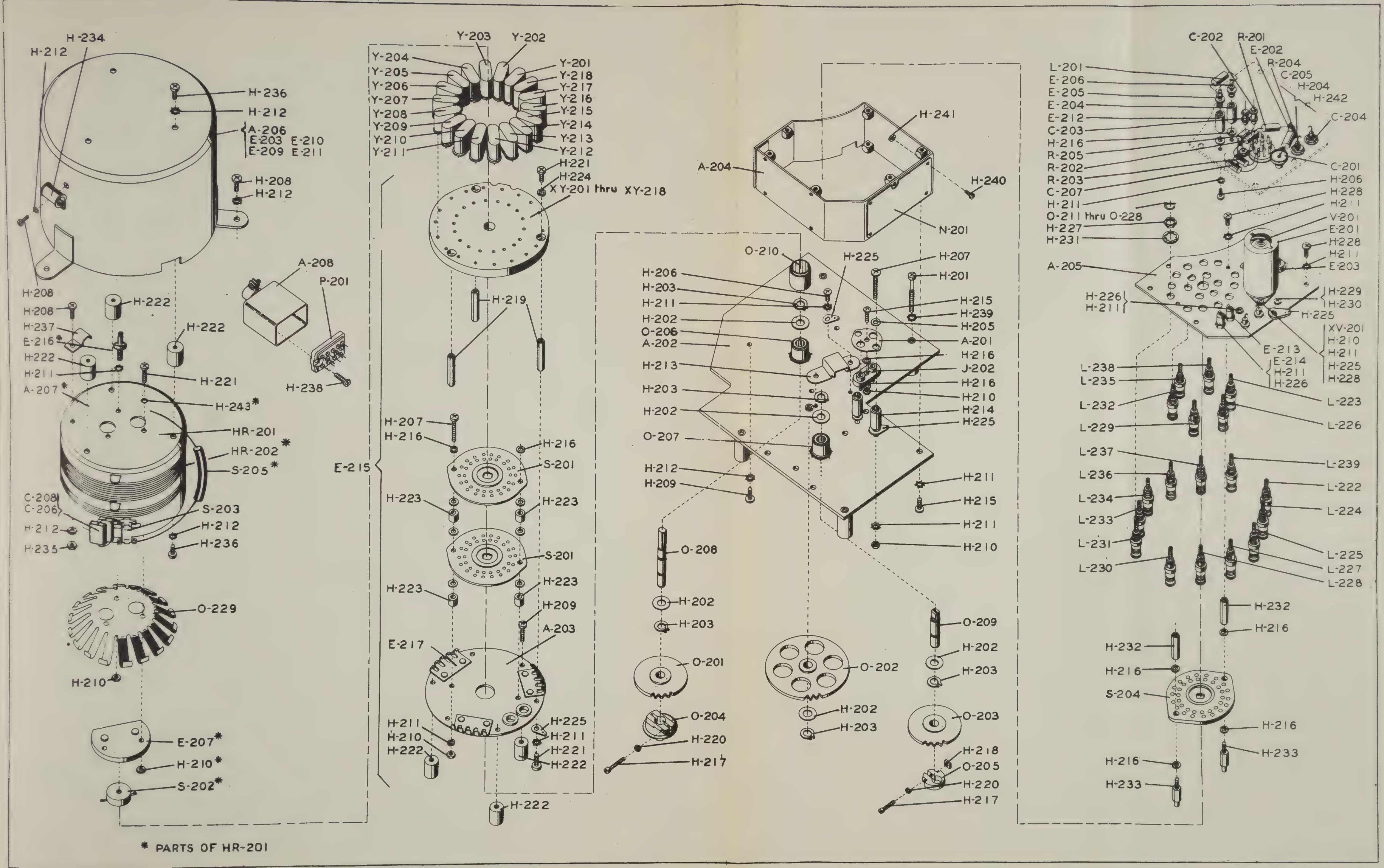
Figure 3. RF Amplifier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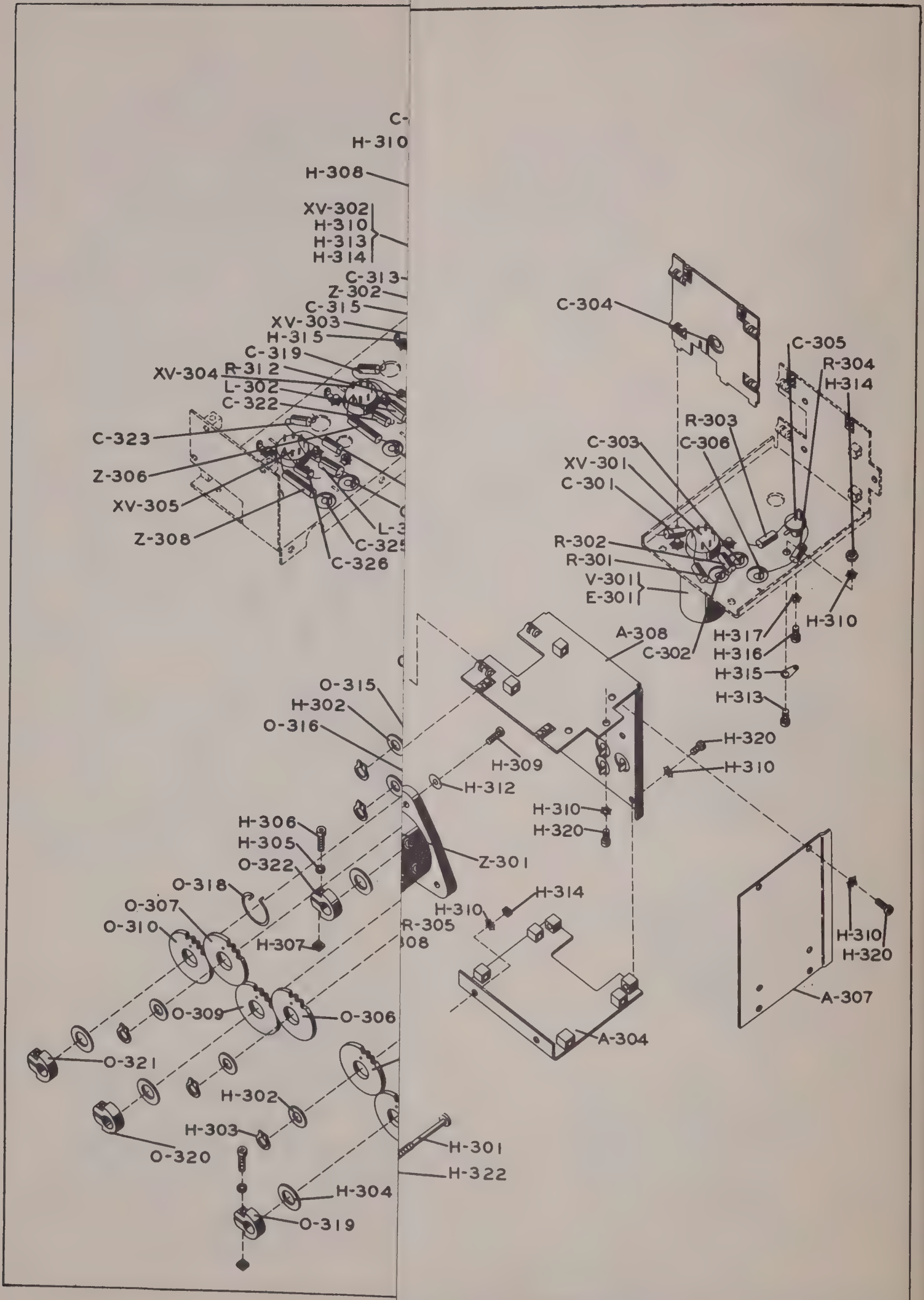
* PARTS OF HR-201

Figure 4. Main Oscillator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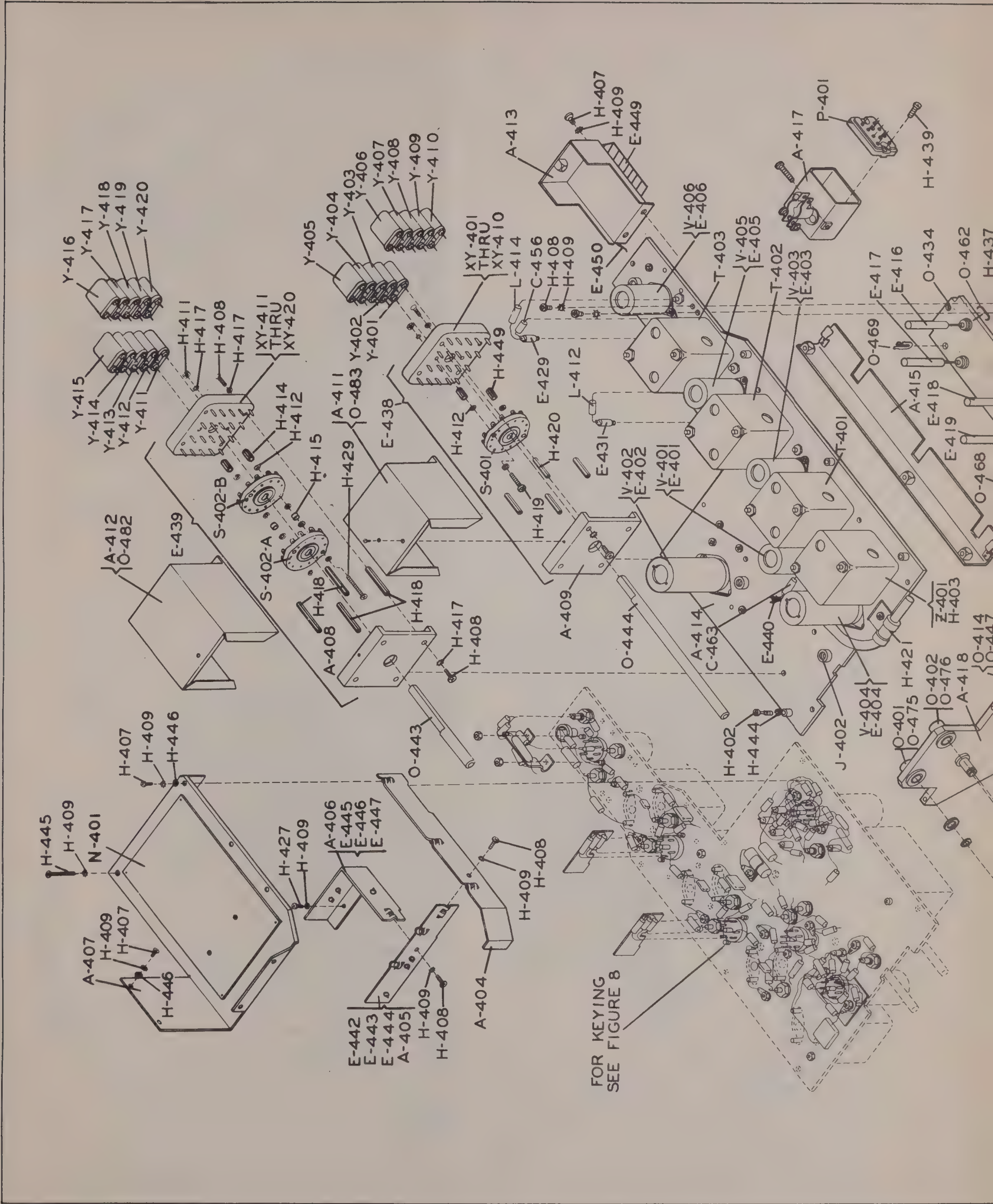
Multiplier Amplifier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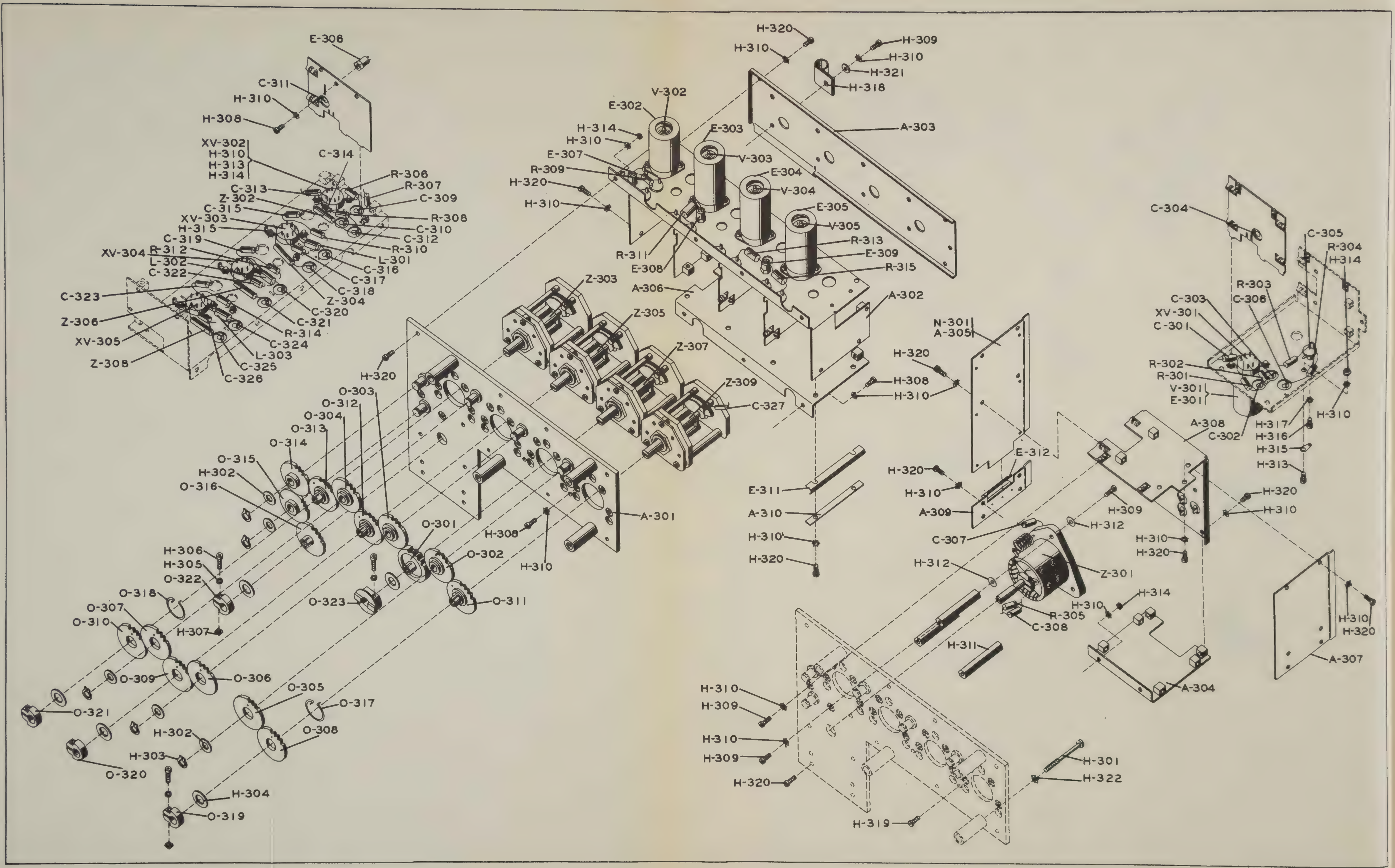
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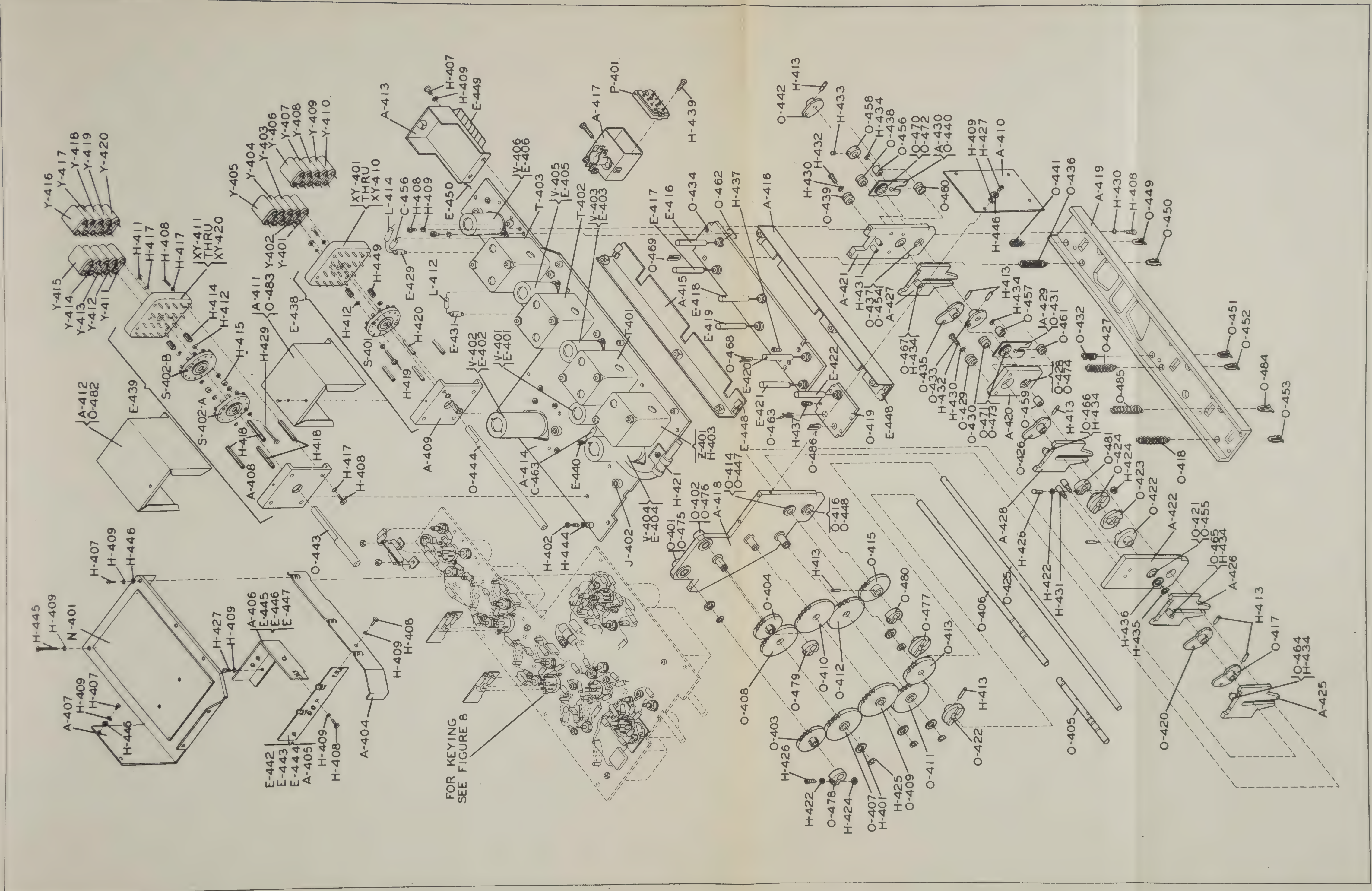
Figure 5. Frequency Multiplier Amplifier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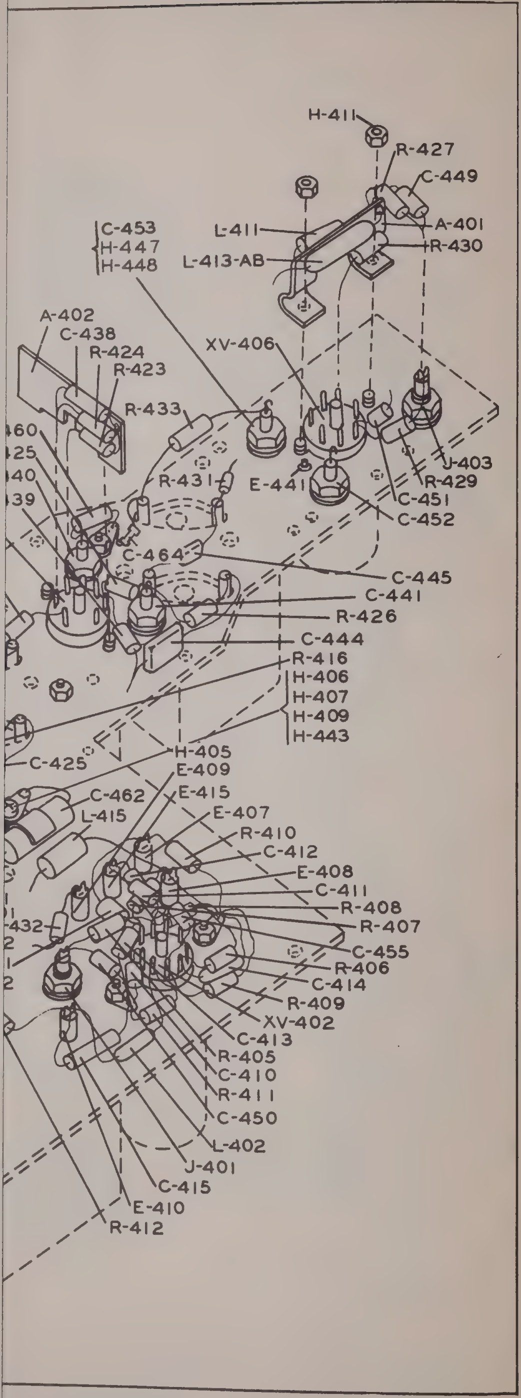
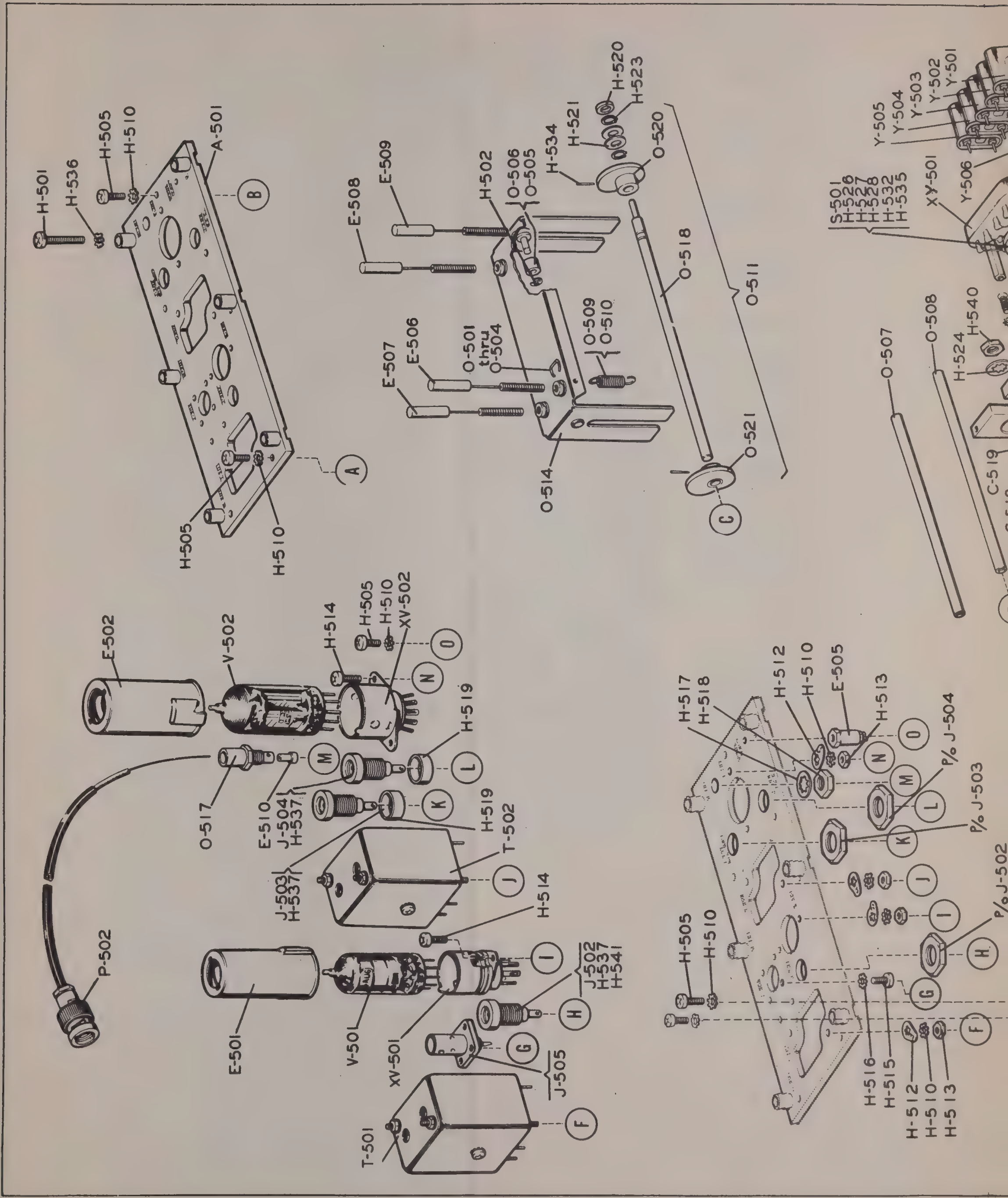
FOR KEYING SEE FIGURE 8

Figure 6. IF and Oscillator


H-411
R-427
C-449
C-453
H-447
H-448
L-411
L-413-AB
A-401
R-430
A-402
C-438
R-424
R-423
XV-406
R-433
460
425
40
39
R-431
E-441
J-403
R-429
C-451
C-452
C-464
C-445
C-441
R-426
C-444
R-416
H-406
H-407
H-409
H-443
H-405
C-425
E-409
E-415
C-462
L-415
E-407
R-410
C-412
E-408
C-411
R-408
R-407
-432
C-455
R-406
C-414
R-409
XV-402
C-413
R-405
C-410
R-411
C-450
L-402
J-401
C-415
E-410
R-412

ator, Bottom View


H-501
H-536
H-505
H-510
A-501
B
A
H-505
H-510
E-508
E-509
H-502
O-506
O-505
H-534
H-521
H-520
H-523
O-520
O-518
O-511
E-507
E-506
O-501 thru O-504
O-509
O-510
O-514
O-521
C
Y-505
Y-504
Y-503
Y-502
Y-501
S-501
H-526
H-527
H-528
H-532
H-535
XY-501
Y-506
O-507
O-508
H-524
H-540
C-519
E-502
V-502
H-514
H-505
H-510
XV-502
N
O
H-519
M
L
K
O-517
E-510
J-504
H-537
H-519
T-502
J-503
H-537
J
P-502
H-514
E-501
V-501
XV-501
I
J-502
H-537
H-541
H
G
J-505
F
T-501
H-517
H-518
H-512
H-510
E-505
H-513
P/o J-504
P/o J-503
P/o J-502
H-505
H-510
H-516
H-515
H-512
H-510
H-513

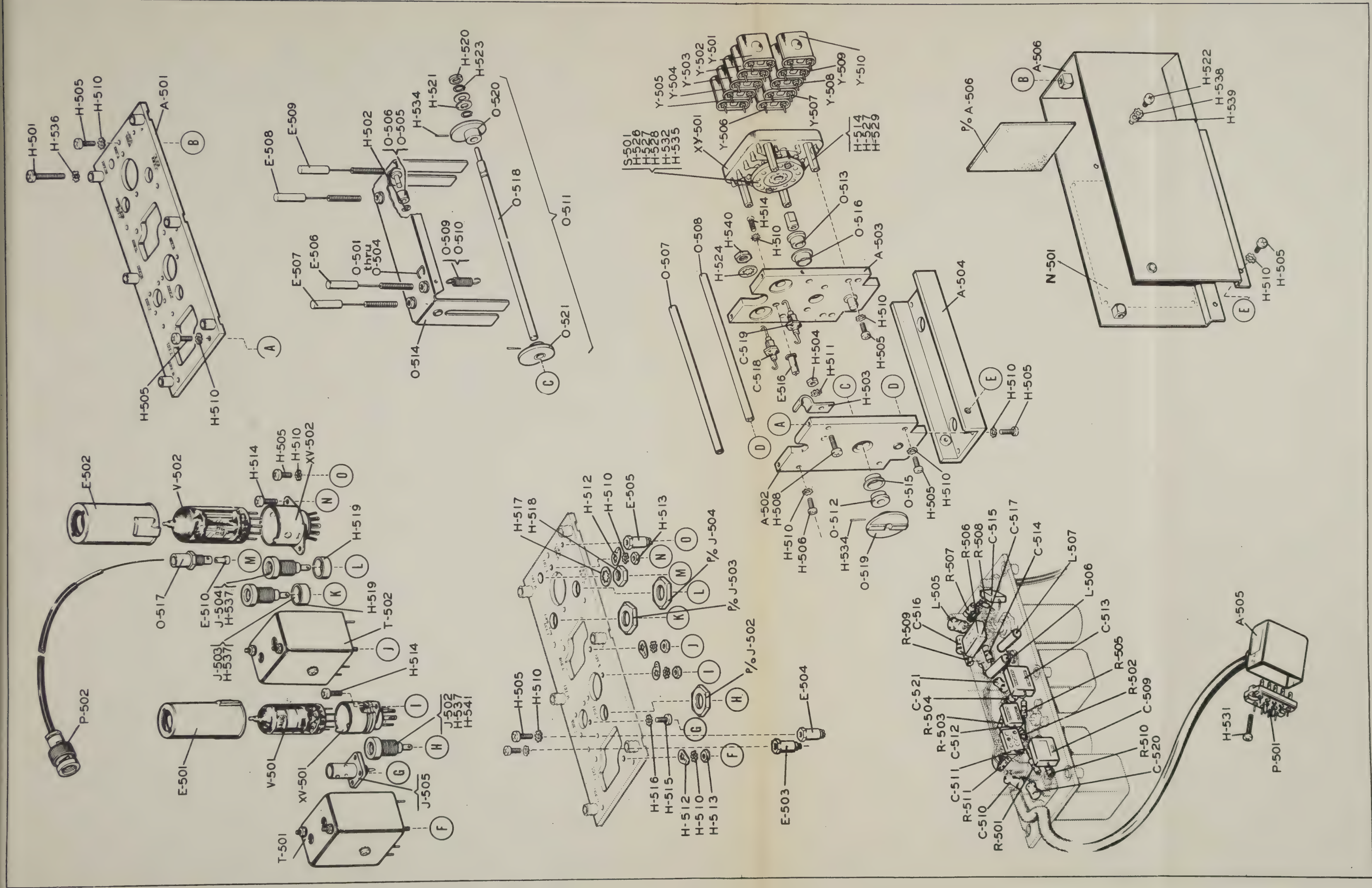
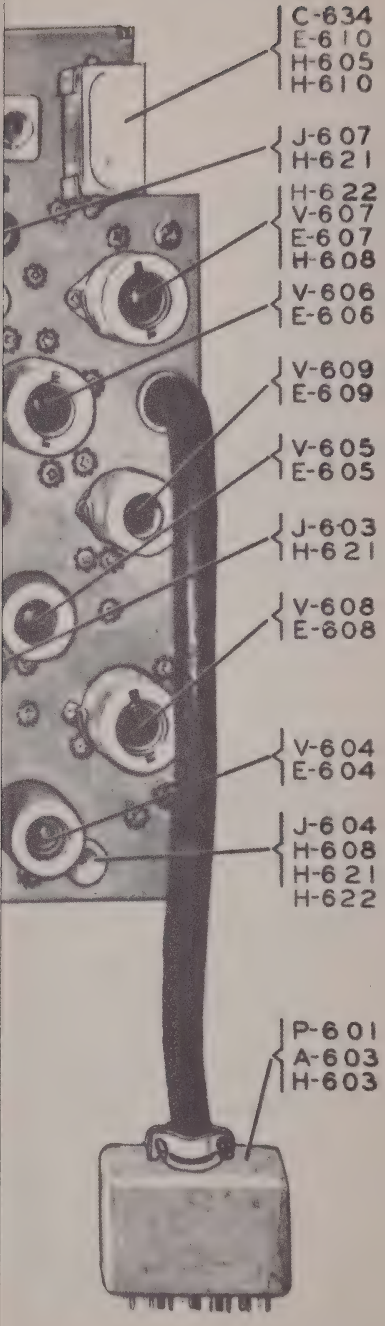

H-501
H-536
H-505
H-510
A-501
B
A
H-505
H-510
E-508
E-509
H-502
O-506
O-505
H-534
H-521
H-520
H-523
O-520
O-518
O-511
O-501 thru O-504
O-509
O-510
E-507
E-506
O-514
O-521
C
Y-505
Y-504
Y-503
Y-502
Y-501
Y-510
Y-509
Y-508
Y-507
Y-506
XY-501
S-501
H-526
H-527
H-528
H-532
H-535
H-514
H-527
H-529
O-513
O-516
A-503
H-514
H-510
H-540
H-524
O-508
O-507
C-519
C-518
E-516
H-504
H-511
C
H-503
D
A
D
H-510
H-505
A-504
E
H-510
H-505
A-502
H-508
H-510
H-506
O-512
H-534
O-519
O-515
H-505
H-510
A-506
B
P/O A-506
H-522
H-538
H-539
N-501
H-510
H-505
E
E-502
V-502
H-514
H-505
H-510
XV-502
O
N
H-519
L
M
O-517
E-510
J-504
H-537
K
H-519
T-502
J-503
H-537
J
P-502
H-514
I
J-502
H-537
H-541
E-501
V-501
XV-501
H
G
J-505
F
T-501
H-517
H-518
H-512
H-510
E-505
H-513
O
N
M
P/O J-504
L
P/O J-503
K
J
I
P/O J-502
H
H-505
H-510
G
F
E-504
E-503
H-516
H-515
H-512
H-510
H-513
R-509
C-516
L-505
R-507
R-506
R-508
C-515
C-517
C-514
L-507
L-506
C-513
R-505
R-502
C-509
R-510
C-520
C-521
R-504
R-503
C-512
C-511
R-511
C-510
R-501
A-505
H-531
P-501

Figure 8. 2nd IF Amplifier


C-634
E-610
H-605
H-610
J-607
H-621
H-622
V-607
E-607
H-608
V-606
E-606
V-609
E-609
V-605
E-605
J-603
H-621
V-608
E-608
V-604
E-604
J-604
H-608
H-621
H-622
P-601
A-603
H-603

plifier, Top View

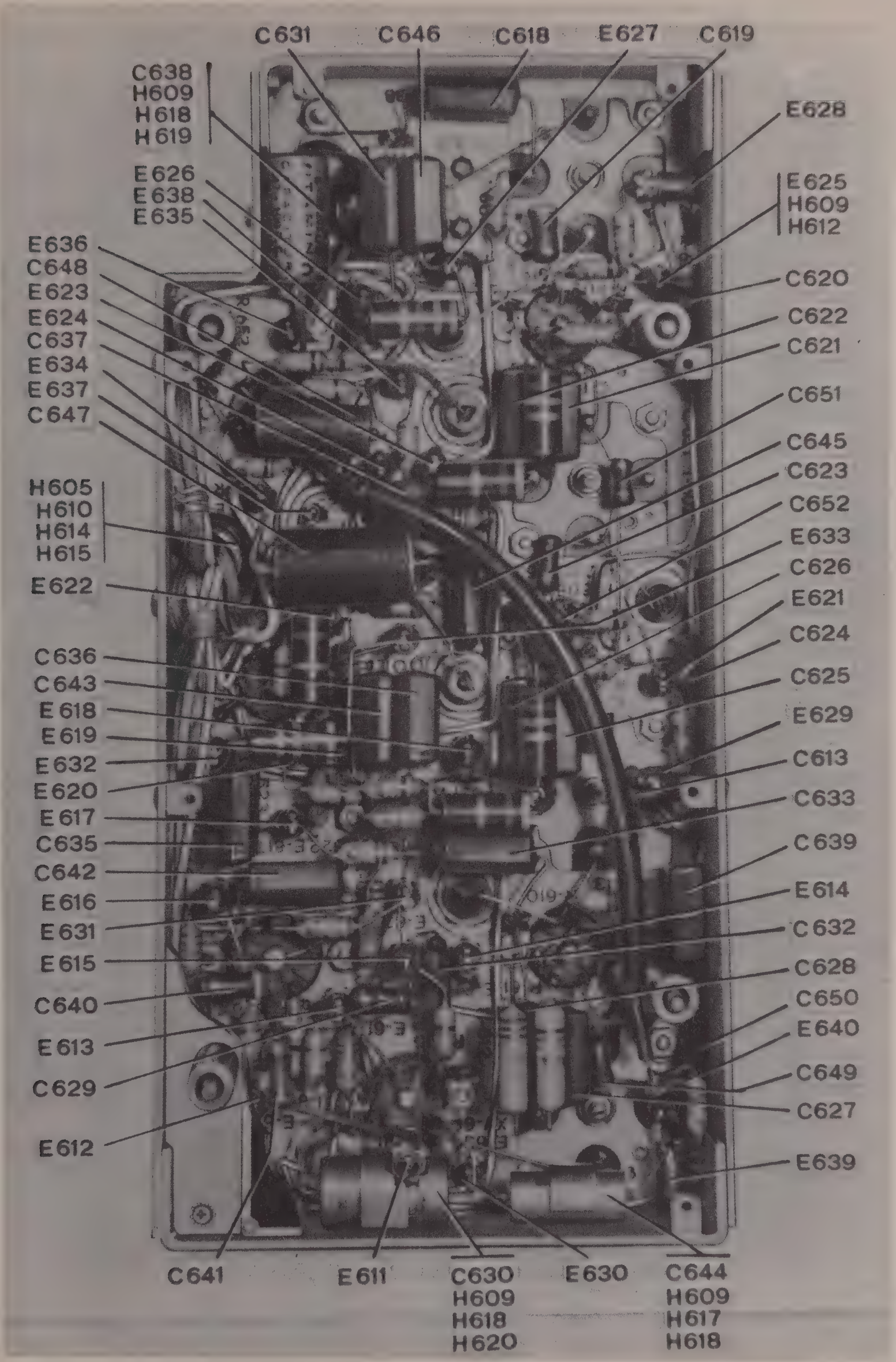

C631
C646
C618
E627
C619
C638
H609
H618
H619
E626
E638
E635
E636
C648
E623
E624
C637
E634
E637
C647
H605
H610
H614
H615
E622
C636
C643
E618
E619
E632
E620
E617
C635
C642
E616
E631
E615
C640
E613
C629
E612
E628
E625
H609
H612
C620
C622
C621
C651
C645
C623
C652
E633
C626
E621
C624
C625
E629
C613
C633
C639
E614
C632
C628
C650
E640
C649
C627
E639
C641
E611
C630
H609
H618
H620
E630
C644
H609
H617
H618

Figure 10. 3rd IF Amplifier, Bottom View

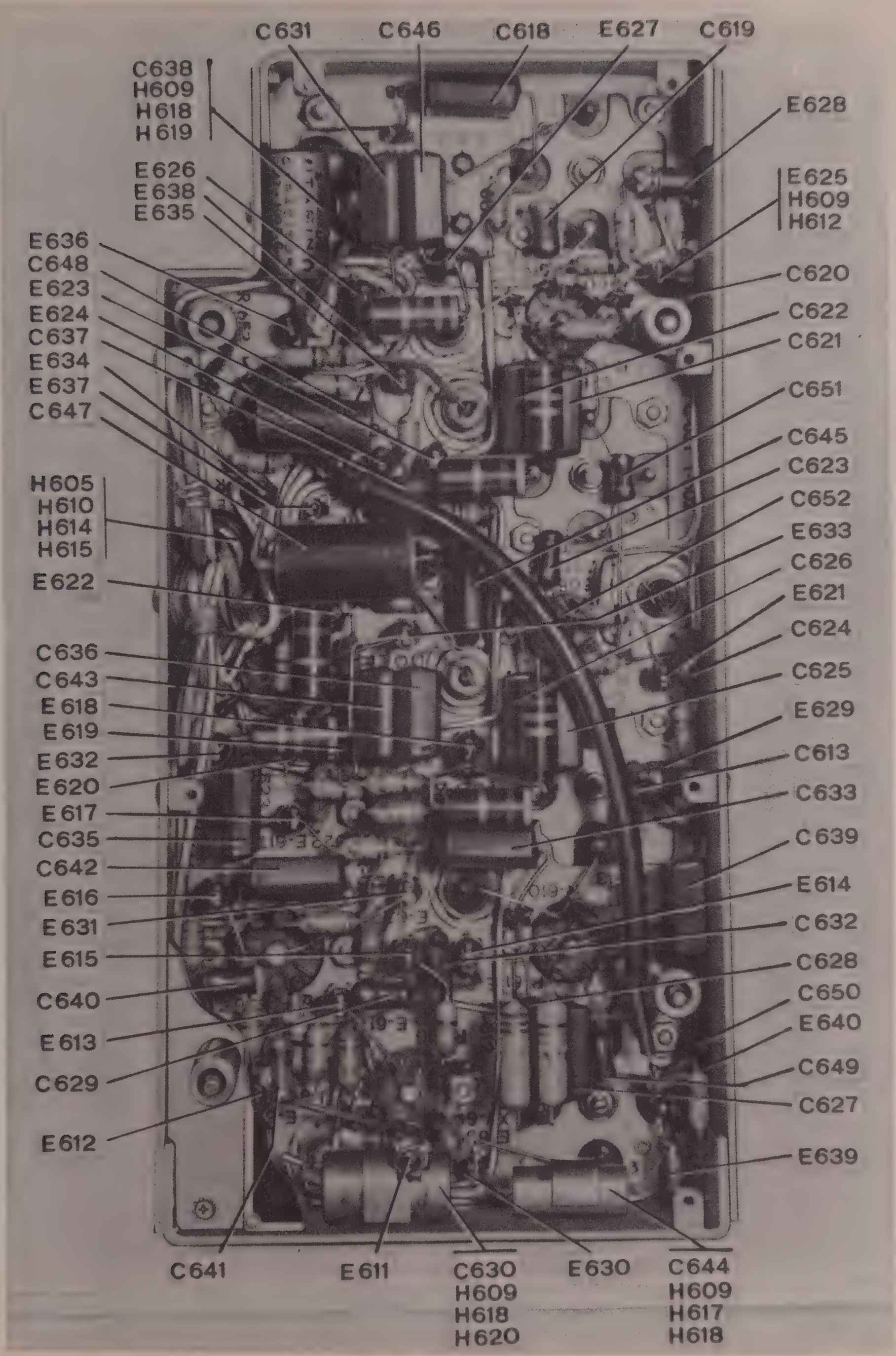

C631
C646
C618
E627
C619
C638
H609
H618
H619
E626
E638
E635
E636
C648
E623
E624
C637
E634
E637
C647
H605
H610
H614
H615
E622
C636
C643
E618
E619
E632
E620
E617
C635
C642
E616
E631
E615
C640
E613
C629
E612
E628
E625
H609
H612
C620
C622
C621
C651
C645
C623
C652
E633
C626
E621
C624
C625
E629
C613
C633
C639
E614
C632
C628
C650
E640
C649
C627
E639
C641
E611
C630
H609
H618
H620
E630
C644
H609
H617
H618

Figure 10. 3rd IF Amplifier, Bottom View

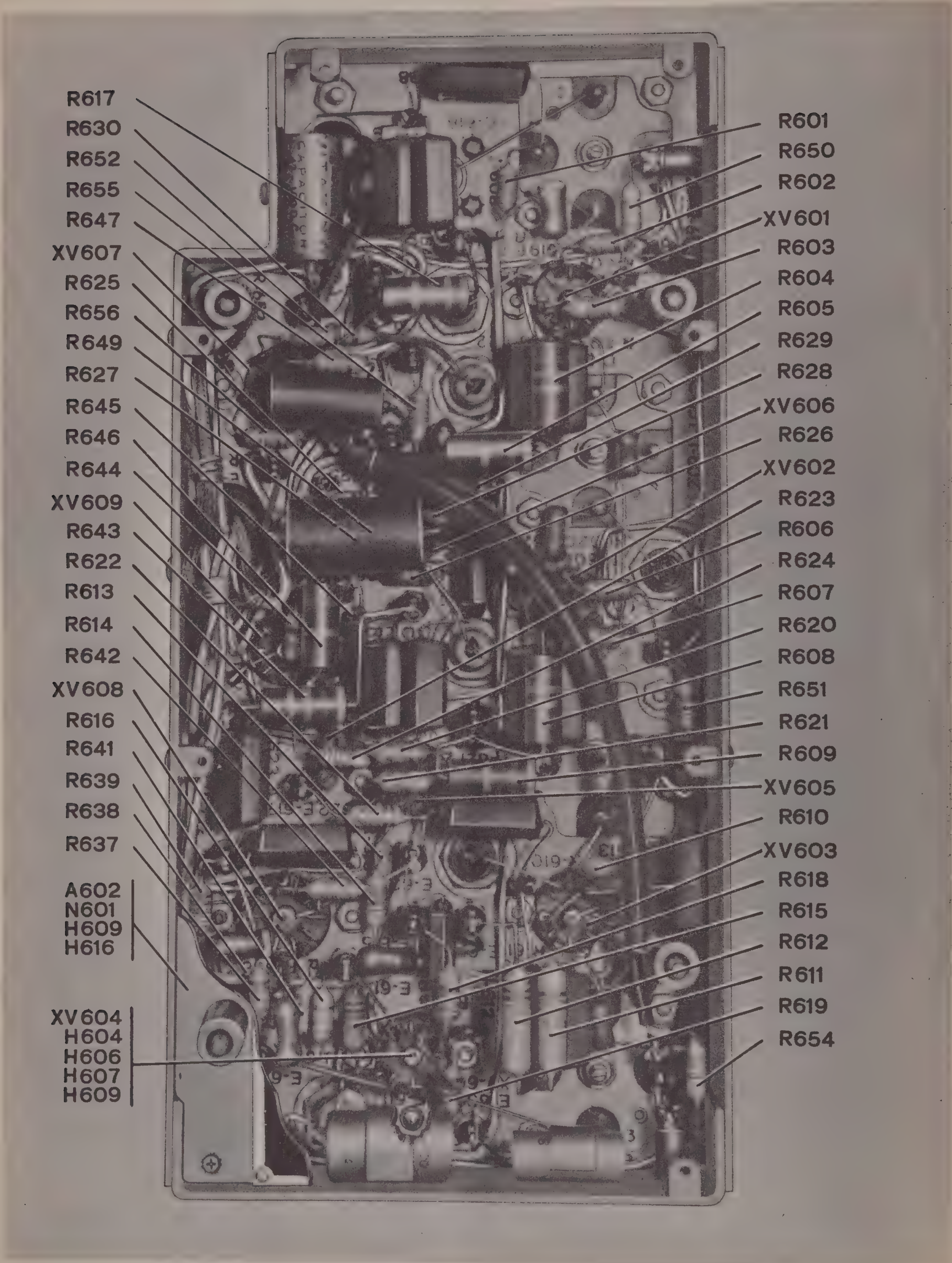

R617
R630
R652
R655
R647
XV607
R625
R656
R649
R627
R645
R646
R644
XV609
R643
R622
R613
R614
R642
XV608
R616
R641
R639
R638
R637
A602
N601
H609
H616
XV604
H604
H606
H607
H609
R601
R650
R602
XV601
R603
R604
R605
R629
R628
XV606
R626
XV602
R623
R606
R624
R607
R620
R608
R651
R621
R609
XV605
R610
XV603
R618
R615
R612
R611
R619
R654

Figure 11. 3rd IF Amplifier. Bottom View

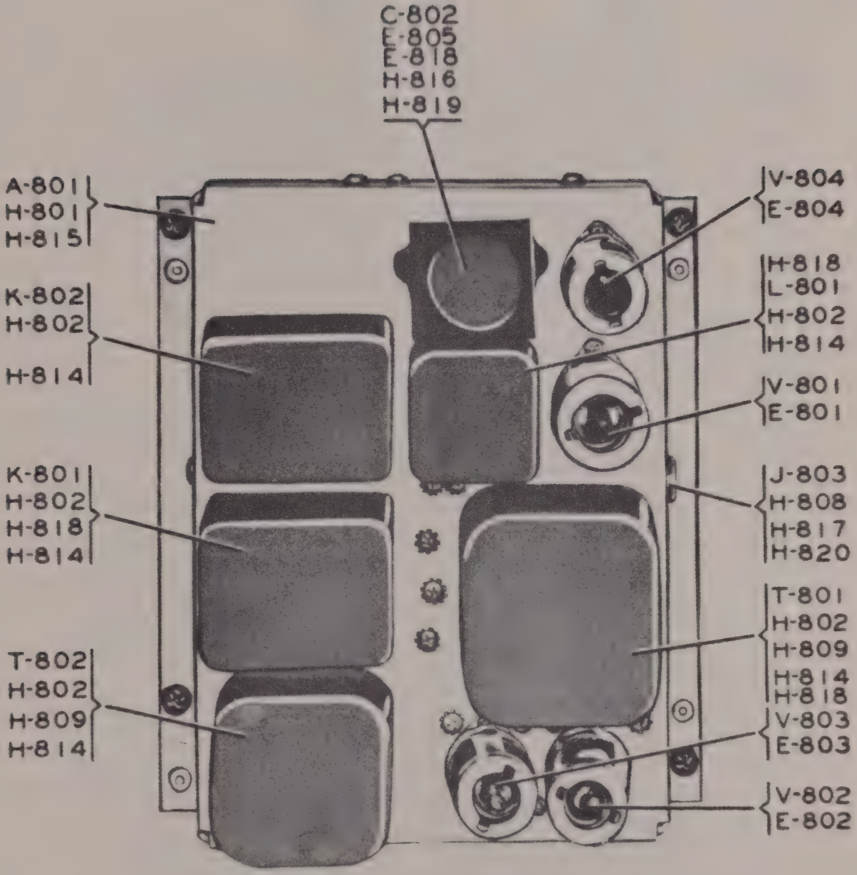

C-802
E-805
E-818
H-816
H-819
A-801
H-801
H-815
K-802
H-802
H-814
K-801
H-802
H-818
H-814
T-802
H-802
H-809
H-814
V-804
E-804
H-818
L-801
H-802
H-814
V-801
E-801
J-803
H-808
H-817
H-820
T-801
H-802
H-809
H-814
H-818
V-803
E-803
V-802
E-802

Figure 12. Audio Amplifier, Top View

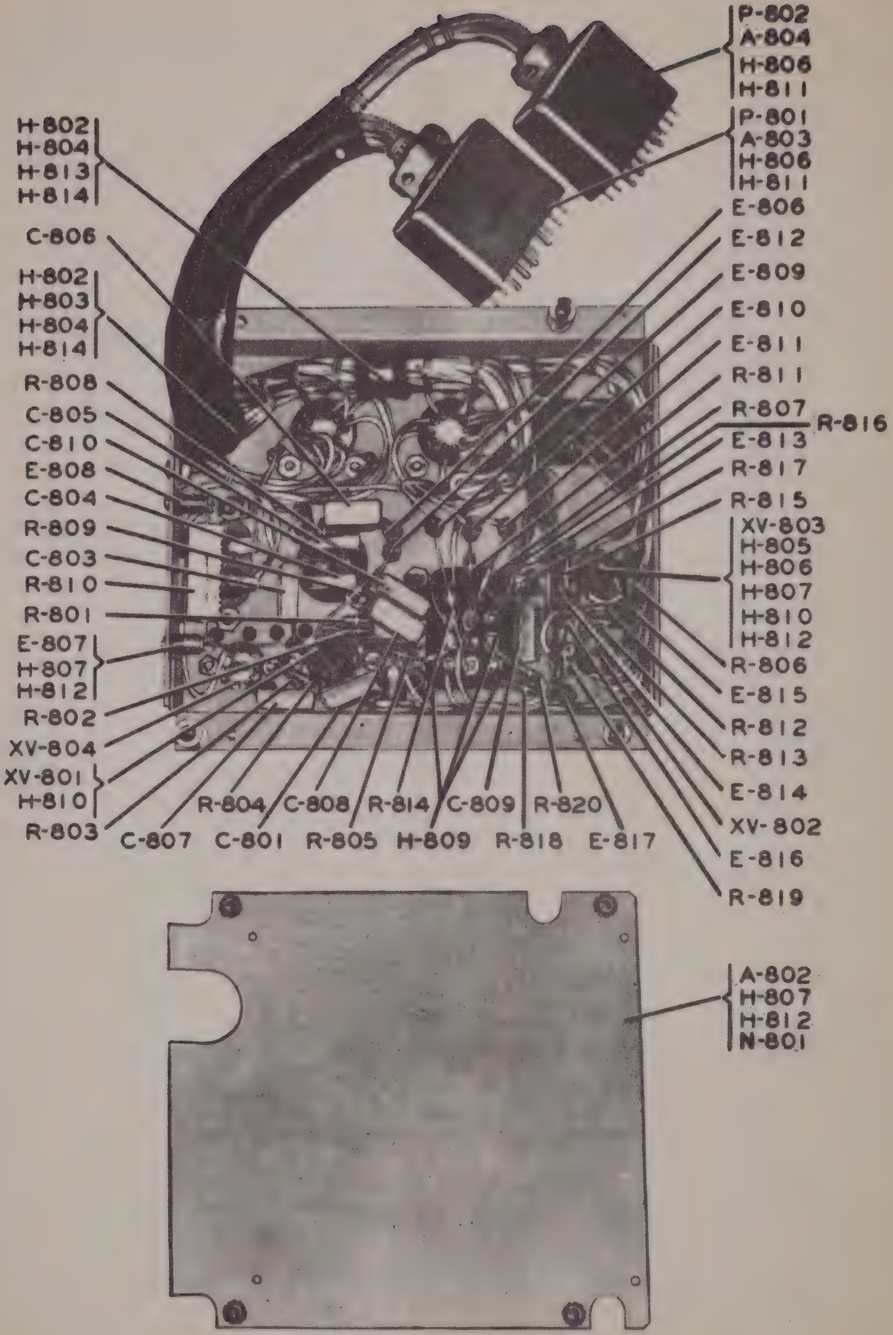

H-802
H-804
H-813
H-814
C-806
H-802
H-803
H-804
H-814
R-808
C-805
C-810
E-808
C-804
R-809
C-803
R-810
R-801
E-807
H-807
H-812
R-802
XV-804
XV-801
H-810
R-803
R-804
C-807
C-808
C-801
R-814
R-805
C-809
H-809
R-820
R-818
E-817
P-802
A-804
H-806
H-811
P-801
A-803
H-806
H-811
E-806
E-812
E-809
E-810
E-811
R-811
R-807
R-816
E-813
R-817
R-815
XV-803
H-805
H-806
H-807
H-810
H-812
R-806
E-815
R-812
R-813
E-814
XV-802
E-816
R-819
A-802
H-807
H-812
N-801

Figure 13. Audio Amplifier, Bottom View

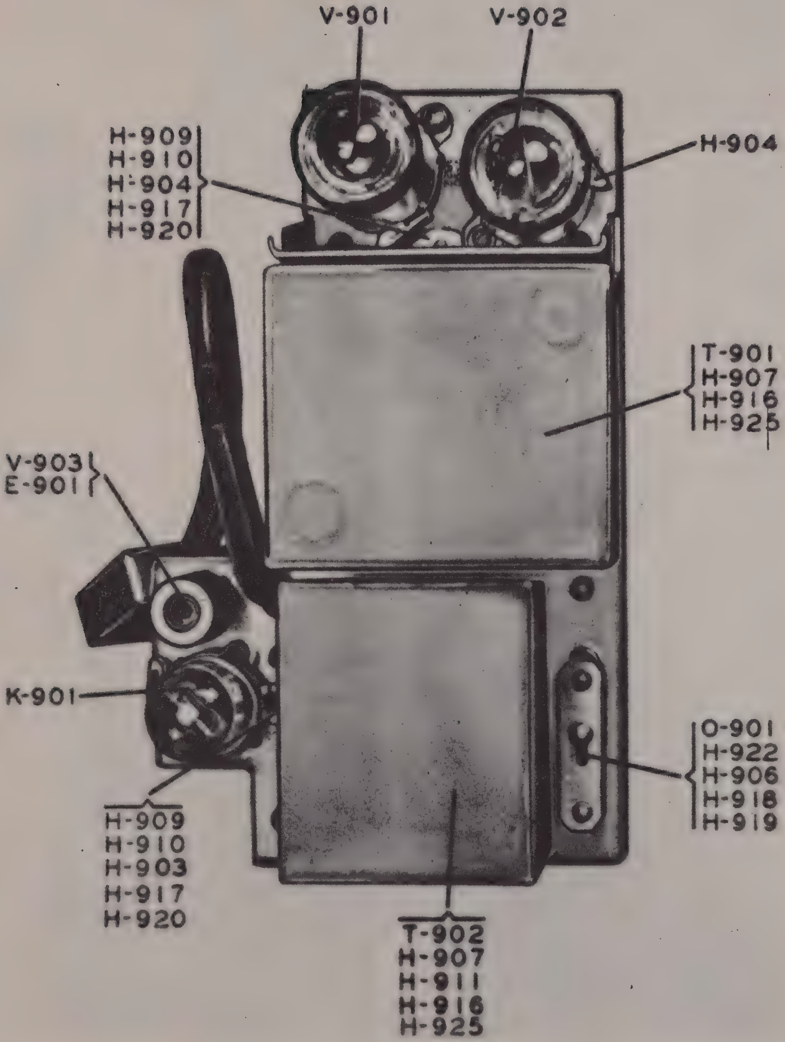

V-901
V-902
H-909
H-910
H-904
H-917
H-920
H-904
T-901
H-907
H-916
H-925
V-903
E-901
K-901
O-901
H-922
H-906
H-918
H-919
H-909
H-910
H-903
H-917
H-920
T-902
H-907
H-911
H-916
H-925

Figure 14. Power Supply Rectifier, Top View

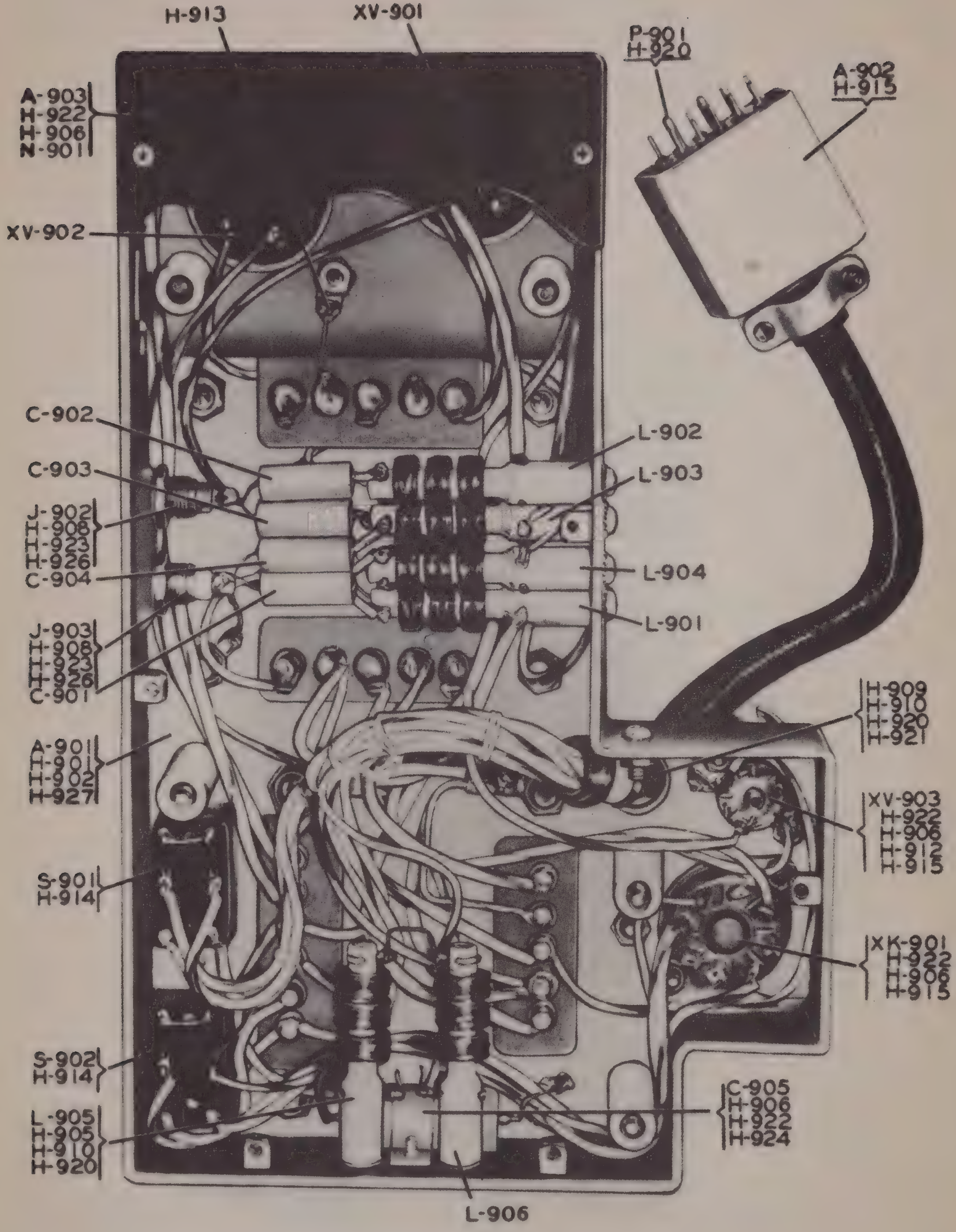

H-913
XV-901
P-901
H-920
A-902
H-915
A-903
H-922
H-906
N-901
XV-902
C-902
C-903
J-902
H-908
H-923
H-926
C-904
J-903
H-908
H-923
H-926
C-901
L-902
L-903
L-904
L-901
H-909
H-910
H-920
H-921
A-901
H-901
H-902
H-927
XV-903
H-922
H-906
H-912
H-915
S-901
H-914
XK-901
H-922
H-906
H-915
S-902
H-914
L-905
H-905
H-910
H-920
C-905
H-906
H-922
H-924
L-906

Figure 15. Power Supply Rectifier, Bottom View

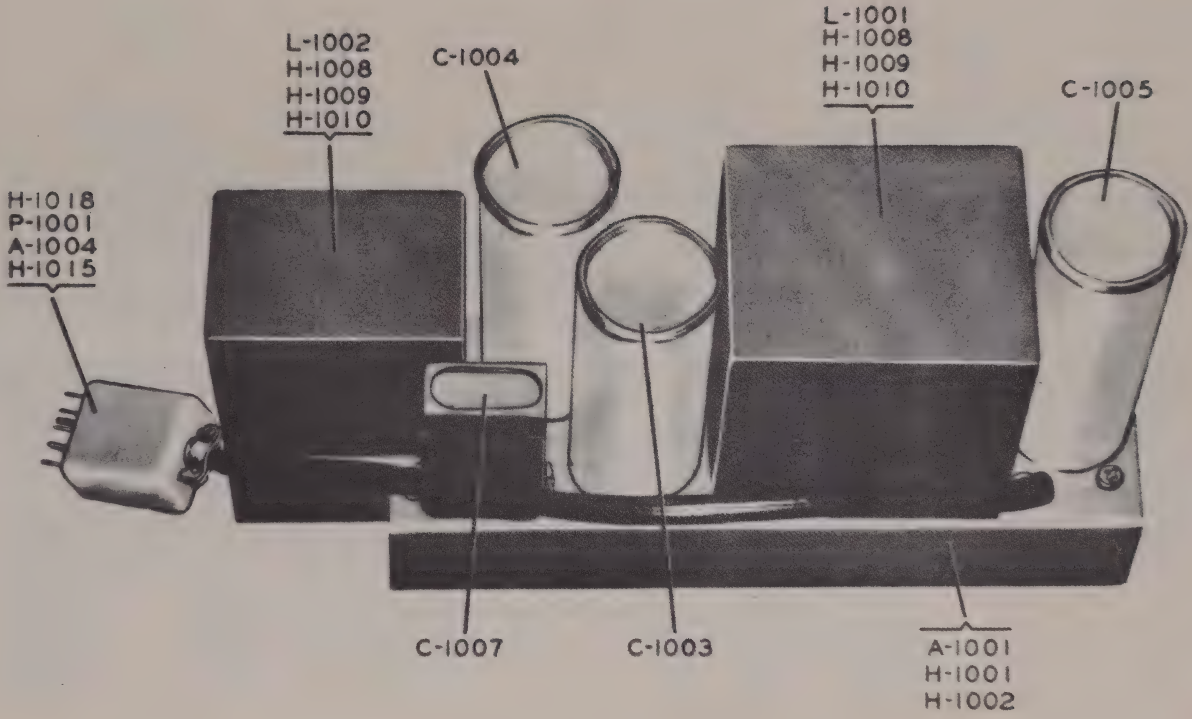

H-1018
P-1001
A-1004
H-1015
L-1002
H-1008
H-1009
H-1010
C-1004
L-1001
H-1008
H-1009
H-1010
C-1005
C-1007
C-1003
A-1001
H-1001
H-1002

Figure 16. Power Supply Filter, Top View

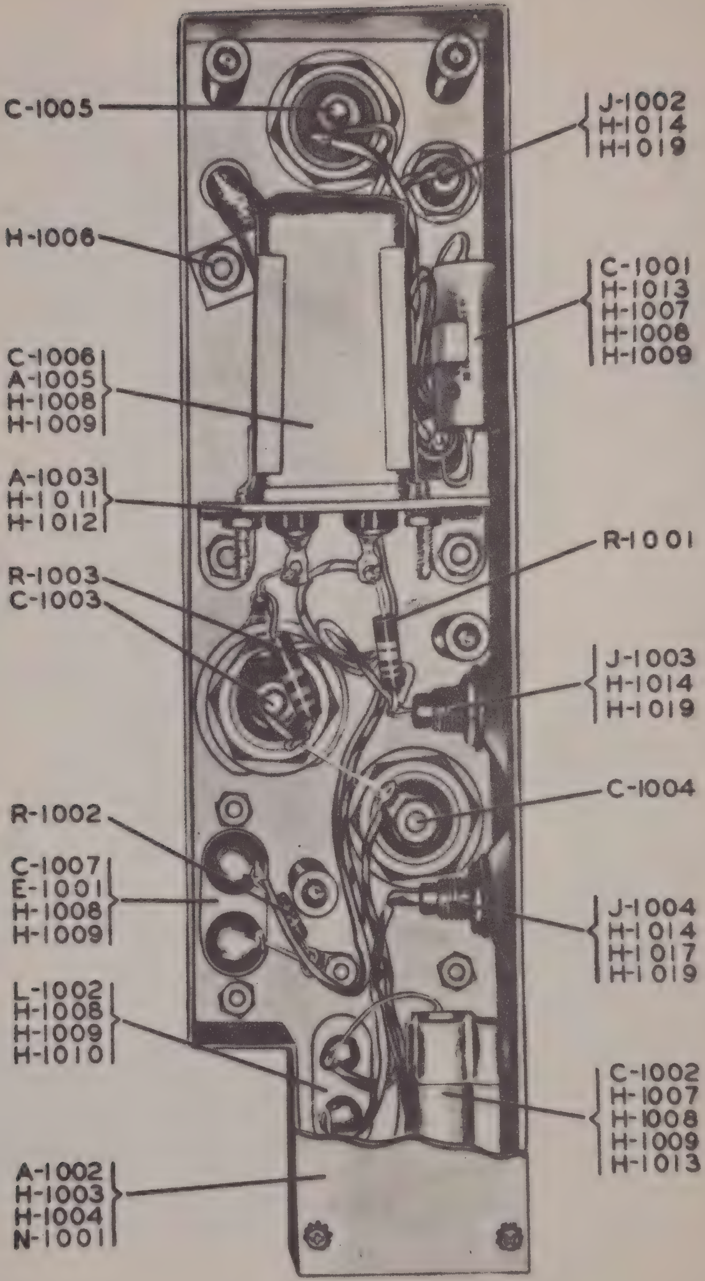

C-1005
J-1002
H-1014
H-1019
H-1006
C-1001
H-1013
H-1007
H-1008
H-1009
C-1006
A-1005
H-1008
H-1009
A-1003
H-1011
H-1012
R-1001
R-1003
C-1003
J-1003
H-1014
H-1019
C-1004
R-1002
C-1007
E-1001
H-1008
H-1009
J-1004
H-1014
H-1017
H-1019
L-1002
H-1008
H-1009
H-1010
C-1002
H-1007
H-1008
H-1009
H-1013
A-1002
H-1003
H-1004
N-1001

Figure 17. Power Supply Filter, Bottom View

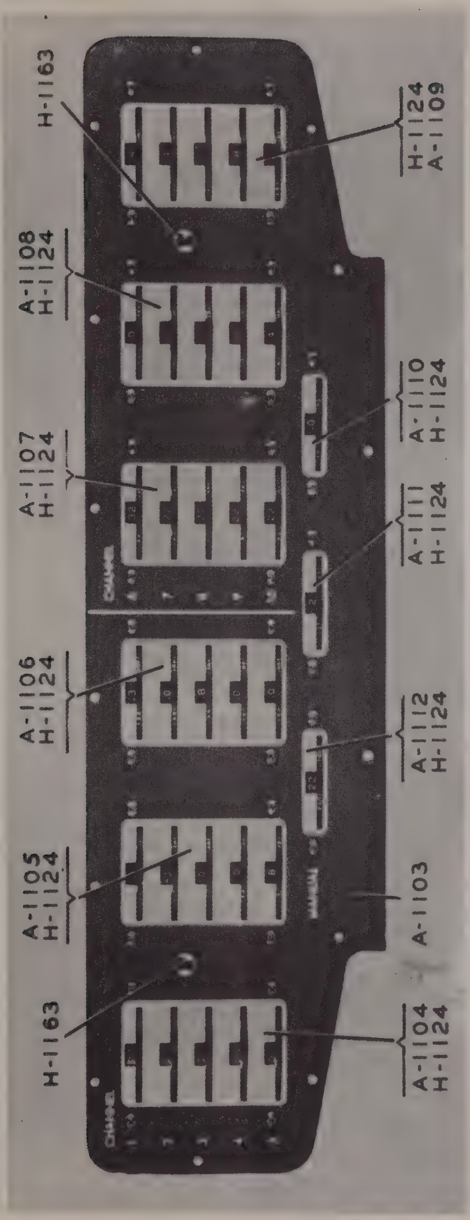

H-1163
A-1108
H-1124
A-1107
H-1124
A-1106
H-1124
A-1105
H-1124
H-1163
H-1124
A-1109
A-1110
H-1124
A-1111
H-1124
A-1112
H-1124
A-1103
A-1104
H-1124

Figure 18. Switch Panel of Frequency Selector Unit, Front View

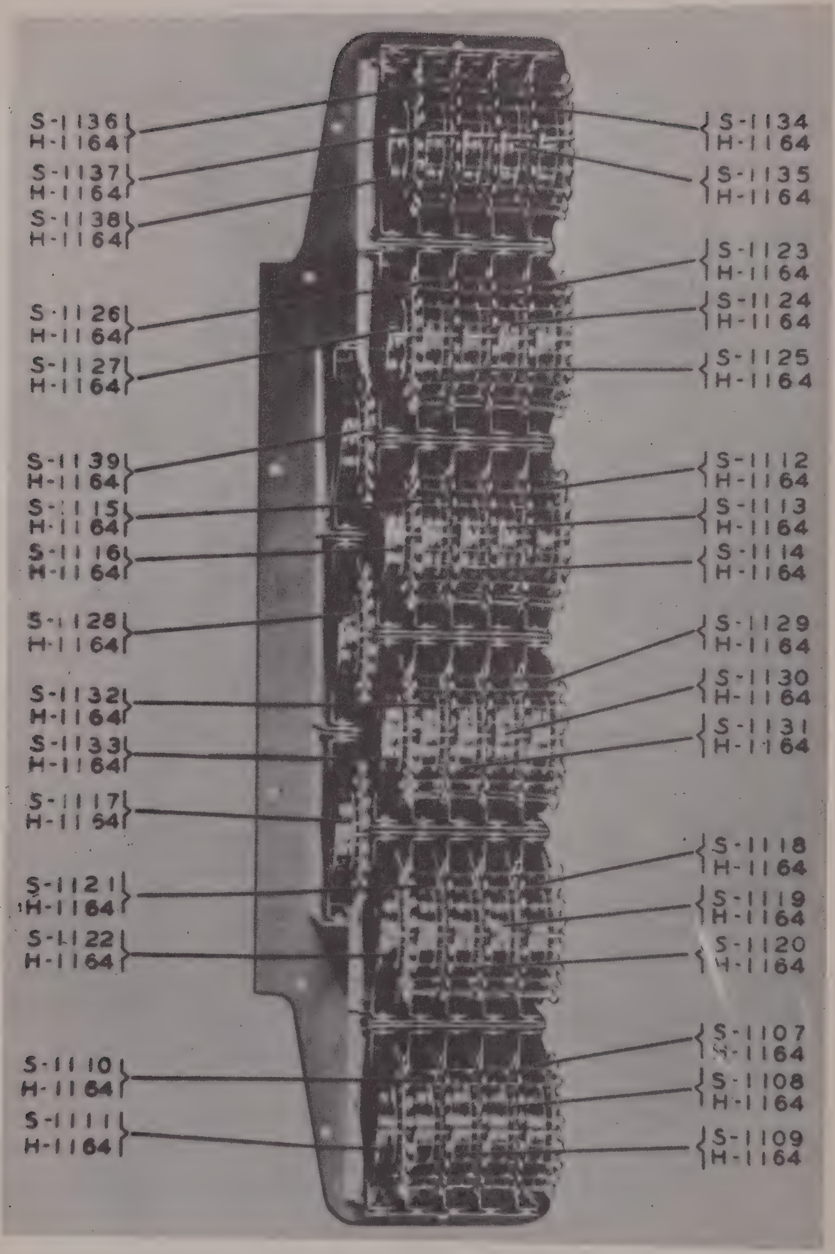

S-1136 H-1164
S-1137 H-1164
S-1138 H-1164
S-1126 H-1164
S-1127 H-1164
S-1139 H-1164
S-1115 H-1164
S-1116 H-1164
S-1128 H-1164
S-1132 H-1164
S-1133 H-1164
S-1117 H-1164
S-1121 H-1164
S-1122 H-1164
S-1110 H-1164
S-1111 H-1164
S-1134 H-1164
S-1135 H-1164
S-1123 H-1164
S-1124 H-1164
S-1125 H-1164
S-1112 H-1164
S-1113 H-1164
S-1114 H-1164
S-1129 H-1164
S-1130 H-1164
S-1131 H-1164
S-1118 H-1164
S-1119 H-1164
S-1120 H-1164
S-1107 H-1164
S-1108 H-1164
S-1109 H-1164

Figure 19. Switch Panel of Frequency Selector Unit, Rear View

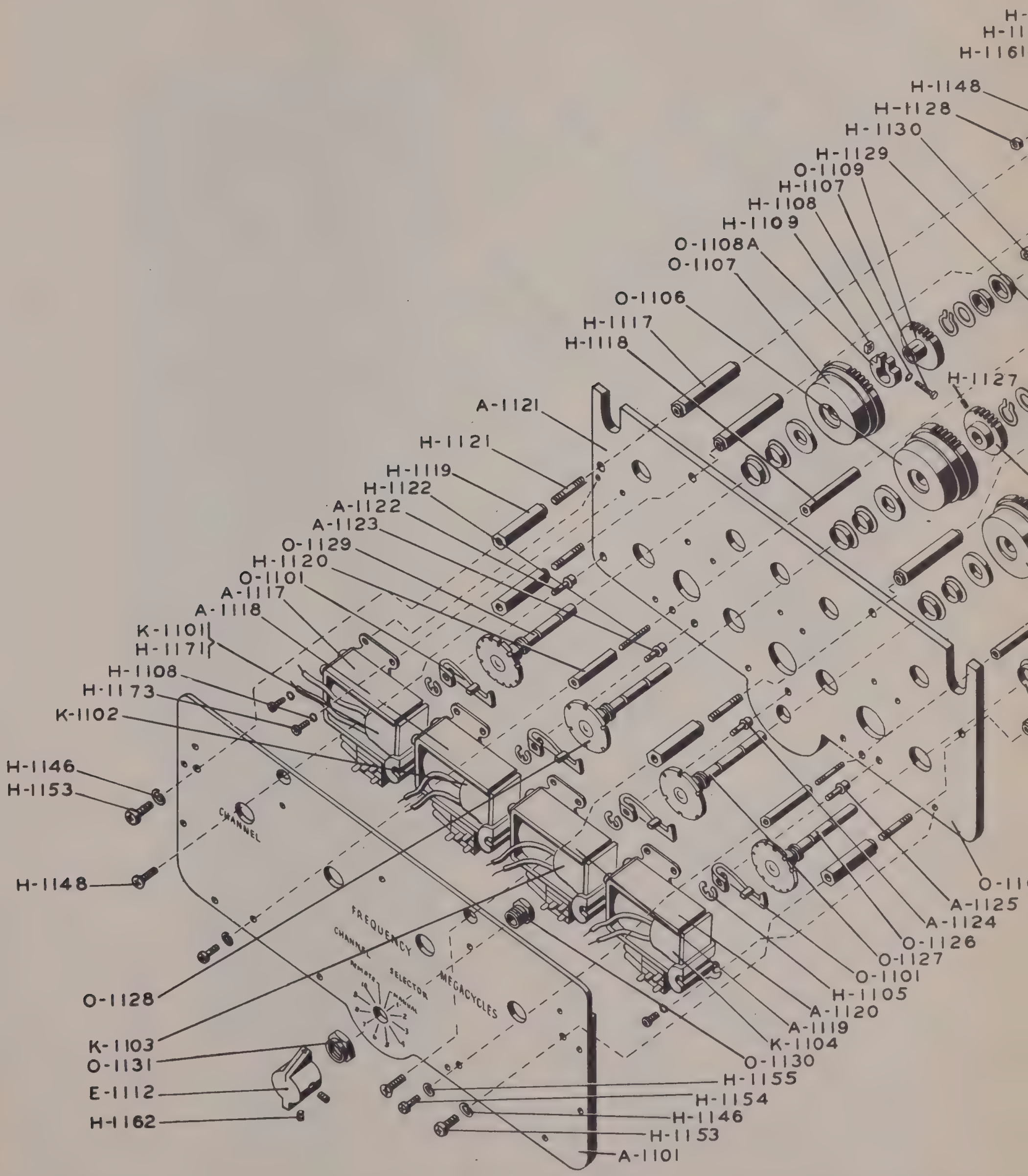

H-
H-11
H-1161
H-1148
H-1128
H-1130
H-1129
O-1109
H-1107
H-1108
H-1109
O-1108A
O-1107
O-1106
H-1117
H-1118
H-1127
A-1121
H-1121
H-1119
H-1122
A-1122
A-1123
O-1129
H-1120
O-1101
A-1117
A-1118
K-1101
H-1171
H-1108
H-1173
K-1102
H-1146
H-1153
CHANNEL
H-1148
FREQUENCY
CHANNEL
SELECTOR
MEGACYCLES
REMOTE
MANUAL
O-1128
K-1103
O-1131
E-1112
H-1162
O-11
A-1125
A-1124
O-1126
O-1127
O-1101
H-1105
A-1120
A-1119
K-1104
O-1130
H-1155
H-1154
H-1146
H-1153
A-1101

Figure 20. Frequency Selector Unit, Mechanical Section

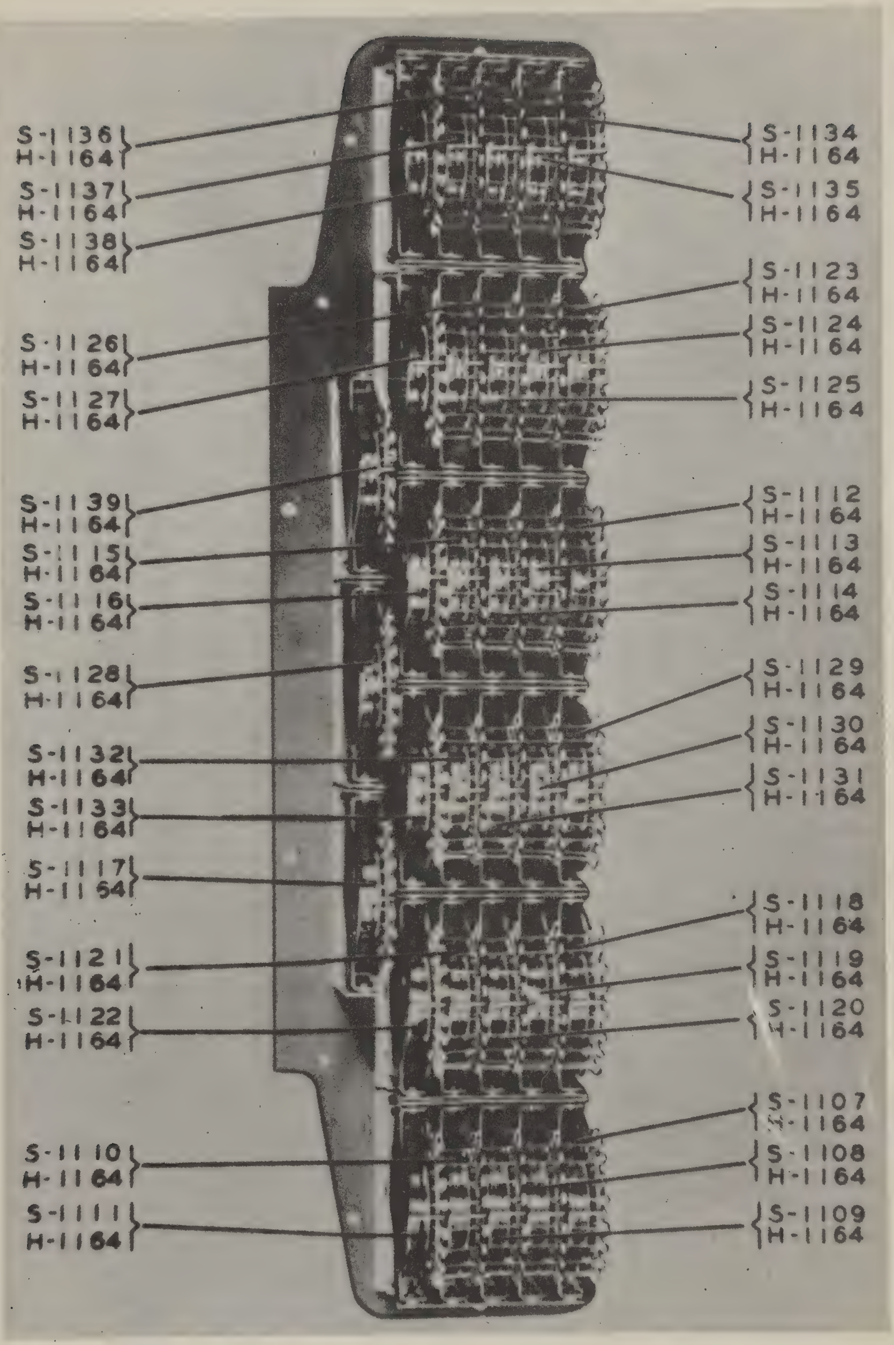

S-1136 H-1164
S-1137 H-1164
S-1138 H-1164
S-1126 H-1164
S-1127 H-1164
S-1139 H-1164
S-1115 H-1164
S-1116 H-1164
S-1128 H-1164
S-1132 H-1164
S-1133 H-1164
S-1117 H-1164
S-1121 H-1164
S-1122 H-1164
S-1110 H-1164
S-1111 H-1164
S-1134 H-1164
S-1135 H-1164
S-1123 H-1164
S-1124 H-1164
S-1125 H-1164
S-1112 H-1164
S-1113 H-1164
S-1114 H-1164
S-1129 H-1164
S-1130 H-1164
S-1131 H-1164
S-1118 H-1164
S-1119 H-1164
S-1120 H-1164
S-1107 H-1164
S-1108 H-1164
S-1109 H-1164

Figure 19. Switch Panel of Frequency Selector Unit, Rear View

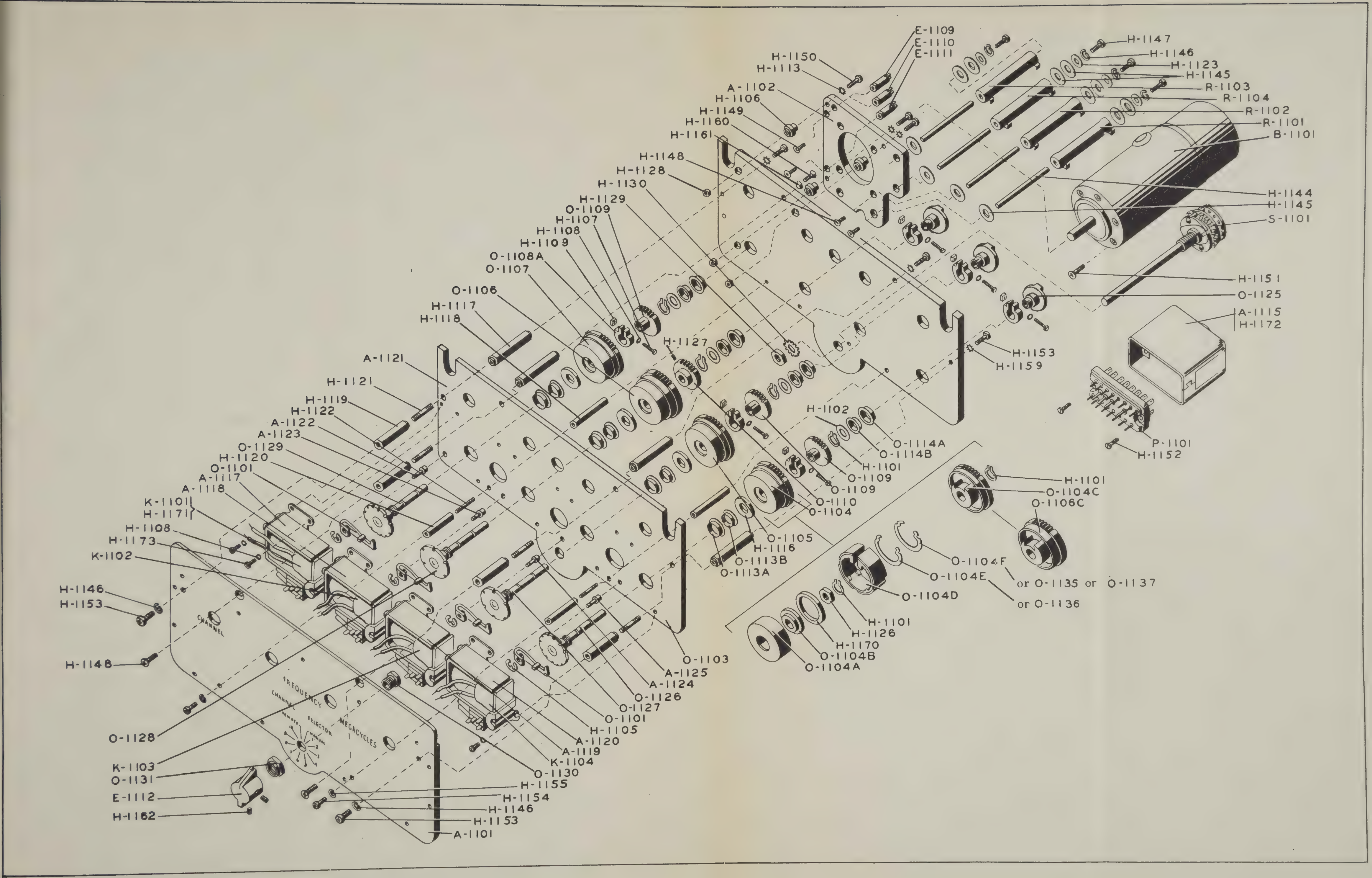
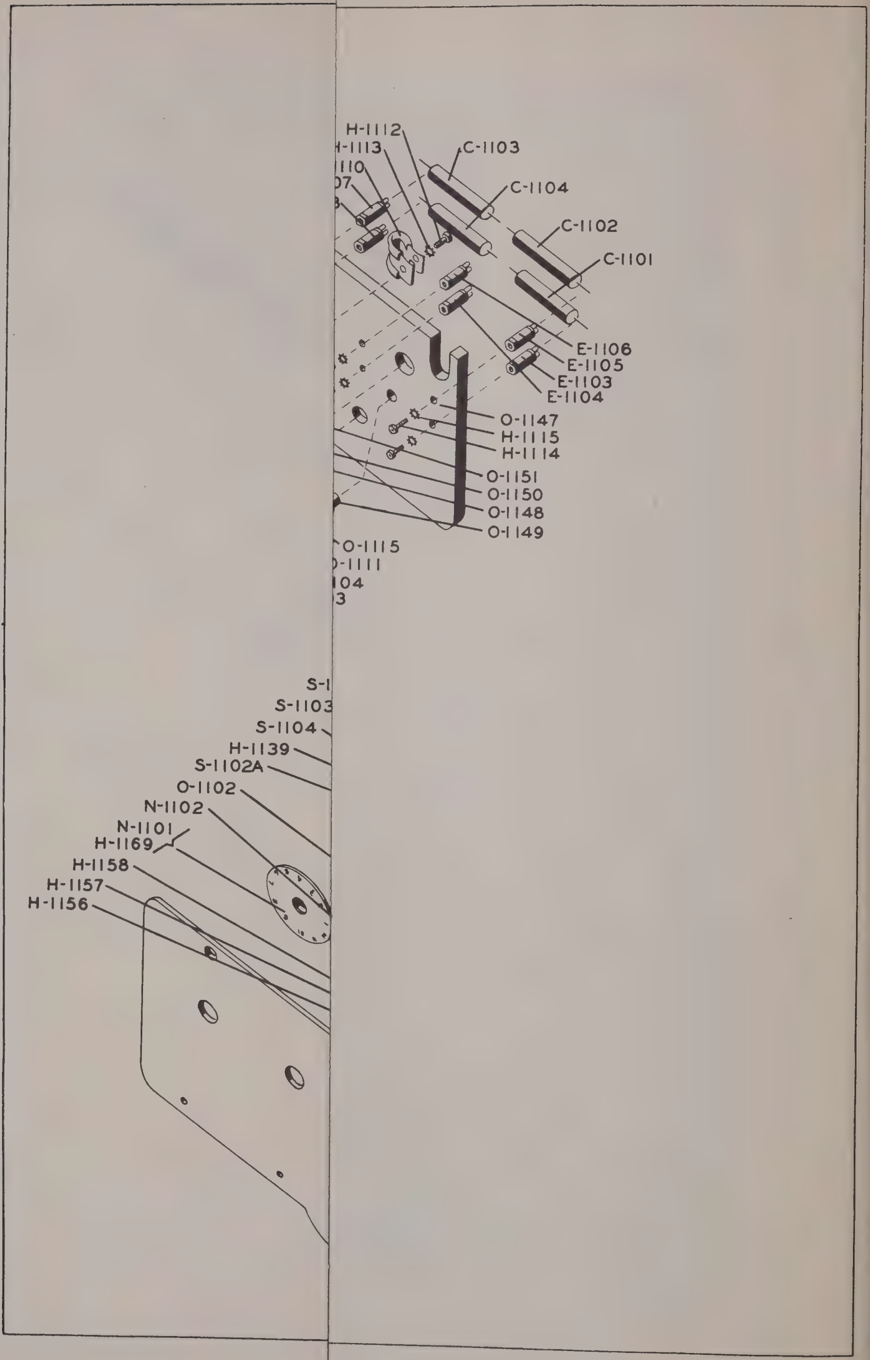

E-1109
E-1110
E-1111
H-1150
H-1113
A-1102
H-1106
H-1149
H-1160
H-1161
H-1148
H-1128
H-1130
H-1129
O-1109
H-1107
H-1108
H-1109
O-1108A
O-1107
O-1106
H-1117
H-1118
A-1121
H-1121
H-1119
H-1122
A-1122
A-1123
O-1129
H-1120
O-1101
A-1117
A-1118
K-1101
H-1171
H-1108
H-1173
K-1102
H-1146
H-1153
H-1148
O-1128
K-1103
O-1131
E-1112
H-1162
H-1147
H-1146
H-1123
H-1145
R-1103
R-1104
R-1102
R-1101
B-1101
H-1144
H-1145
S-1101
H-1151
O-1125
A-1115
H-1172
H-1153
H-1159
P-1101
H-1152
H-1127
H-1102
O-1114A
O-1114B
H-1101
O-1109
O-1109
O-1110
O-1104
O-1105
H-1116
O-1113B
O-1113A
H-1101
O-1104C
O-1106C
O-1104F
O-1104E
or O-1135 or O-1137
or O-1136
O-1104D
H-1101
H-1126
H-1170
O-1104B
O-1104A
O-1103
A-1125
A-1124
O-1126
O-1127
O-1101
H-1105
A-1120
A-1119
K-1104
O-1130
H-1155
H-1154
H-1146
H-1153
A-1101
CHANNEL
FREQUENCY
CHANNEL SELECTOR
REMOTE
MANUAL
MEGACYCLES

Figure 20. Frequency Selector Unit, Mechanical Section


H-1112
-1113
110
07
C-1103
C-1104
C-1102
C-1101
E-1106
E-1105
E-1103
E-1104
O-1147
H-1115
H-1114
O-1151
O-1150
O-1148
O-1149
O-1115
-1111
104
3
S-1
S-1103
S-1104
H-1139
S-1102A
O-1102
N-1102
N-1101
H-1169
H-1158
H-1157
H-1156

ector Unit, Mechanical Section

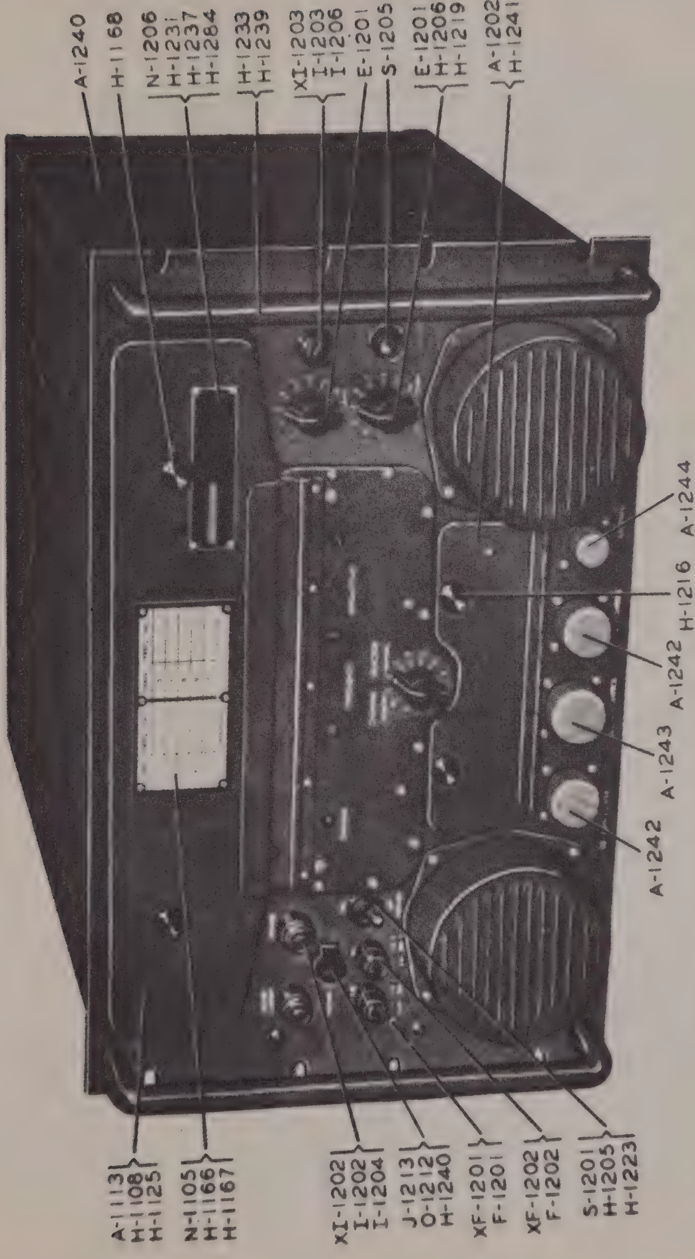

A-1240
H-1168
N-1206
H-1231
H-1237
H-1284
H-1233
H-1239
XI-1203
I-1203
I-1206
E-1201
S-1205
E-1201
H-1206
H-1219
A-1202
H-1241
A-1244
H-1216
A-1242
A-1243
A-1242
A-1113
H-1108
H-1125
N-1105
H-1166
H-1167
XI-1202
I-1202
I-1204
J-1213
O-1212
H-1240
XF-1201
F-1201
XF-1202
F-1202
S-1201
H-1205
H-1223

Figure 22. Radio Receiver R-278B/GR

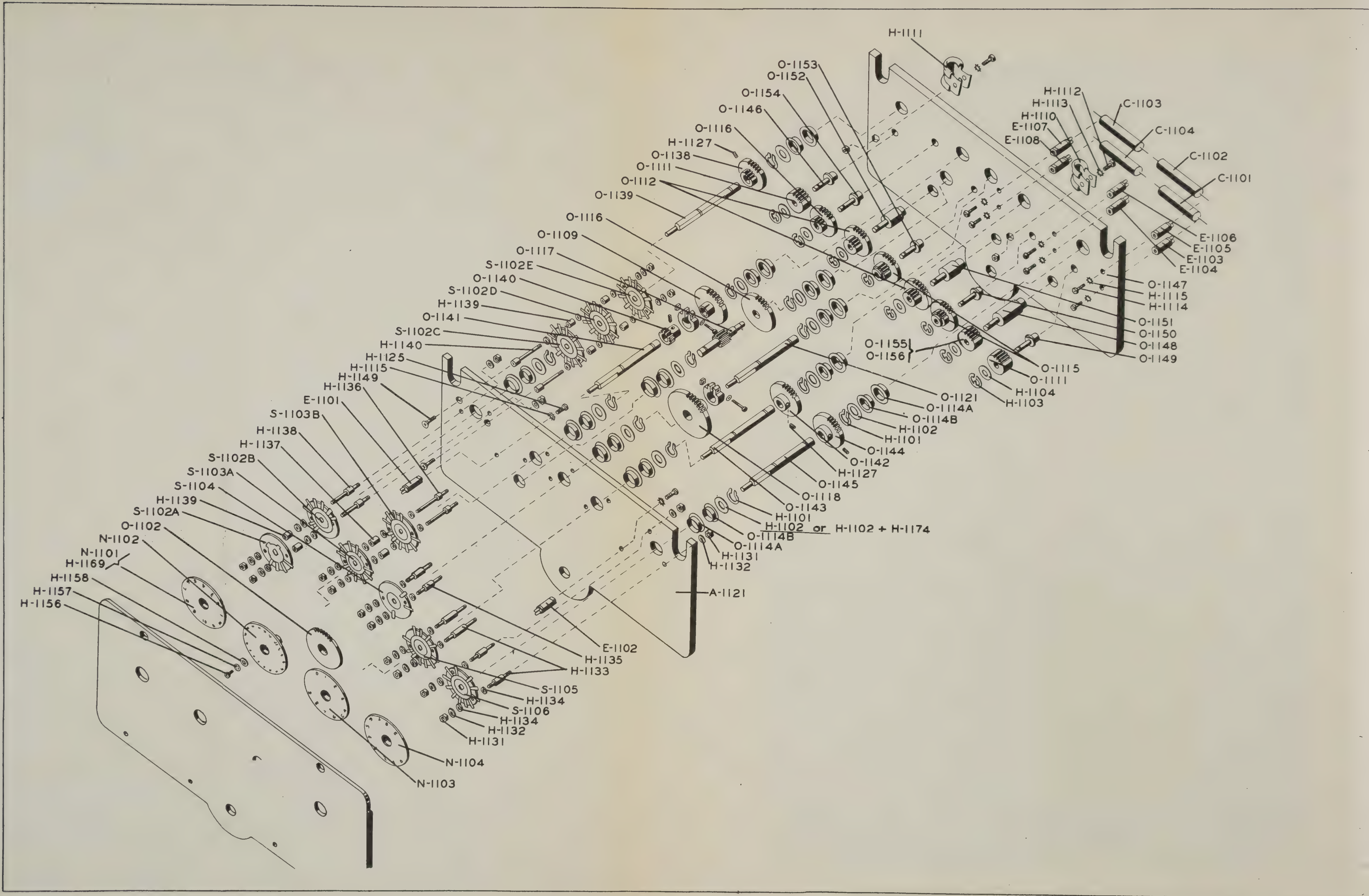

H-1111
O-1153
O-1152
O-1154
O-1146
O-1116
H-1127
O-1138
O-1111
O-1112
O-1139
O-1116
O-1109
O-1117
S-1102E
O-1140
S-1102D
H-1139
O-1141
S-1102C
H-1140
H-1125
H-1115
H-1149
H-1136
E-1101
S-1103B
H-1138
H-1137
S-1102B
S-1103A
S-1104
H-1139
S-1102A
O-1102
N-1102
N-1101
H-1169
H-1158
H-1157
H-1156
H-1112
H-1113
H-1110
E-1107
E-1108
C-1103
C-1104
C-1102
C-1101
E-1106
E-1105
E-1103
E-1104
O-1147
H-1115
H-1114
O-1151
O-1150
O-1148
O-1149
O-1155
O-1156
O-1115
O-1111
H-1104
H-1103
O-1121
O-1114A
O-1114B
H-1102
H-1101
O-1144
O-1142
H-1127
O-1145
O-1118
O-1143
H-1101
H-1102 or H-1102 + H-1174
O-1114B
O-1114A
H-1131
H-1132
A-1121
E-1102
H-1135
H-1133
S-1105
H-1134
S-1106
H-1134
H-1132
H-1131
N-1104
N-1103

Figure 21. Frequency Selector Unit, Mechanical Section

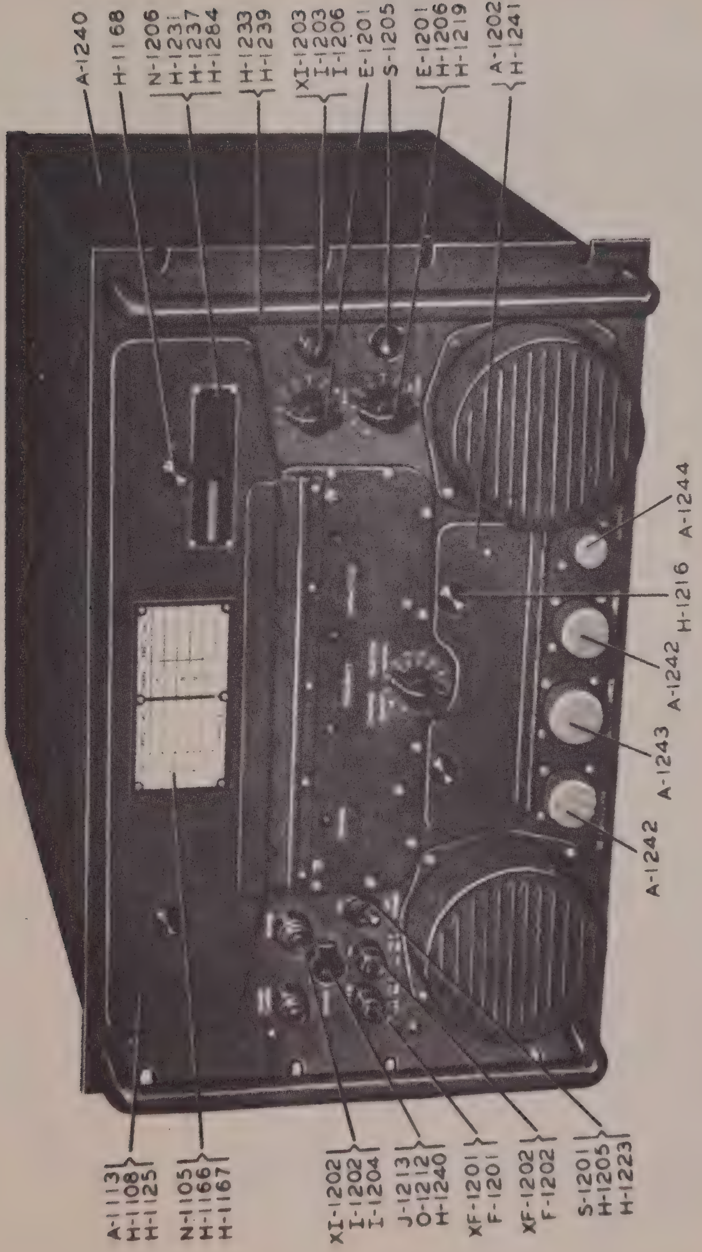

A-1240
H-1168
N-1206
H-1231
H-1237
H-1284
H-1233
H-1239
XI-1203
I-1203
I-1206
E-1201
S-1205
E-1201
H-1206
H-1219
A-1202
H-1241
A-1244
H-1216
A-1242
A-1243
A-1242
A-1113
H-1108
H-1125
N-1105
H-1166
H-1167
XI-1202
I-1202
I-1204
J-1213
O-1212
H-1240
XF-1201
F-1201
XF-1202
F-1202
S-1201
H-1205
H-1223

Figure 22. Radio Receiver R-278B/GR

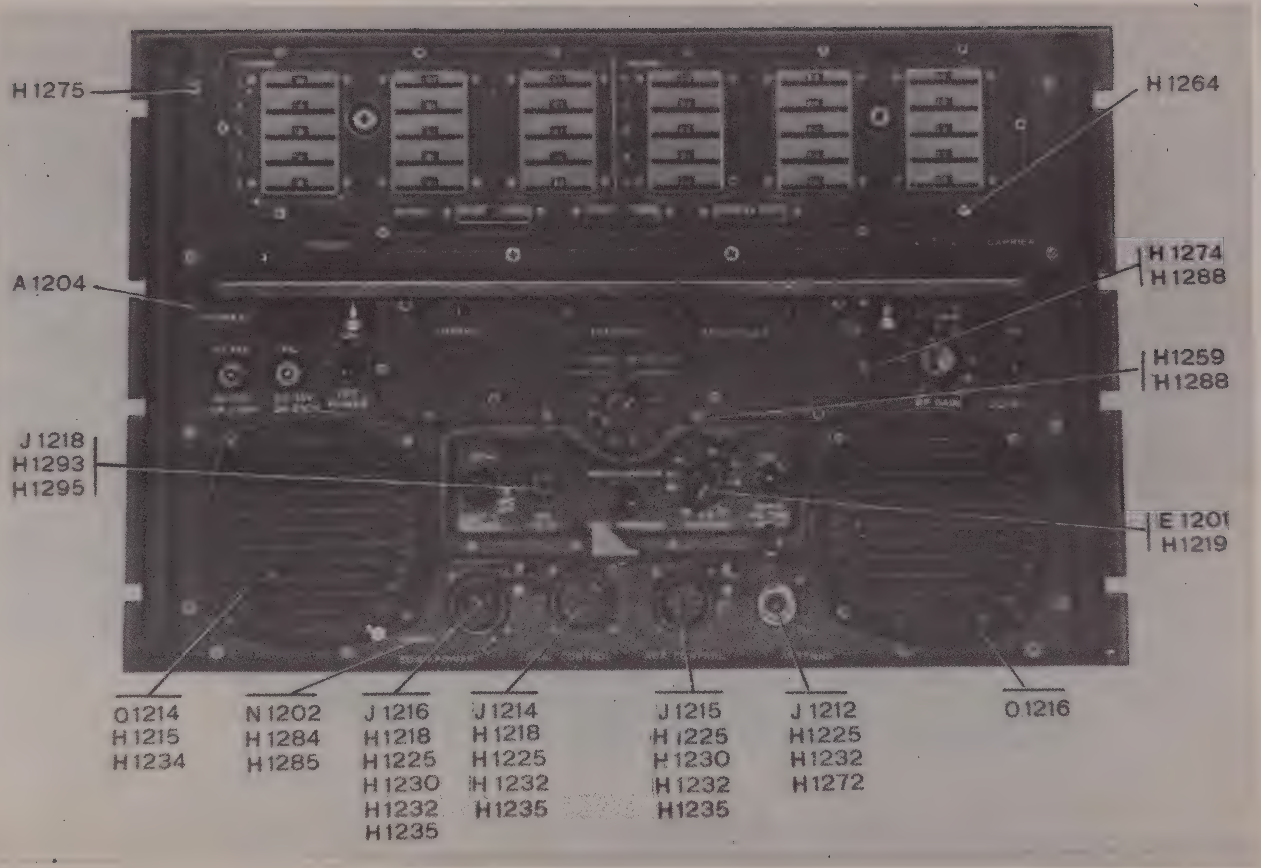

H 1275
H 1264
A 1204
H 1274
H 1288
H1259
H1288
J 1218
H 1293
H 1295
E 1201
H 1219
O 1214
H 1215
H 1234
N 1202
H 1284
H 1285
J 1216
H 1218
H 1225
H 1230
H 1232
H 1235
J 1214
H 1218
H 1225
H 1232
H 1235
J 1215
H 1225
H 1230
H 1232
H 1235
J 1212
H 1225
H 1232
H 1272
O 1216
CARRIER
RF GAIN

Figure 23. Radio Receiver R-278B/GR, Front View, Panels Open

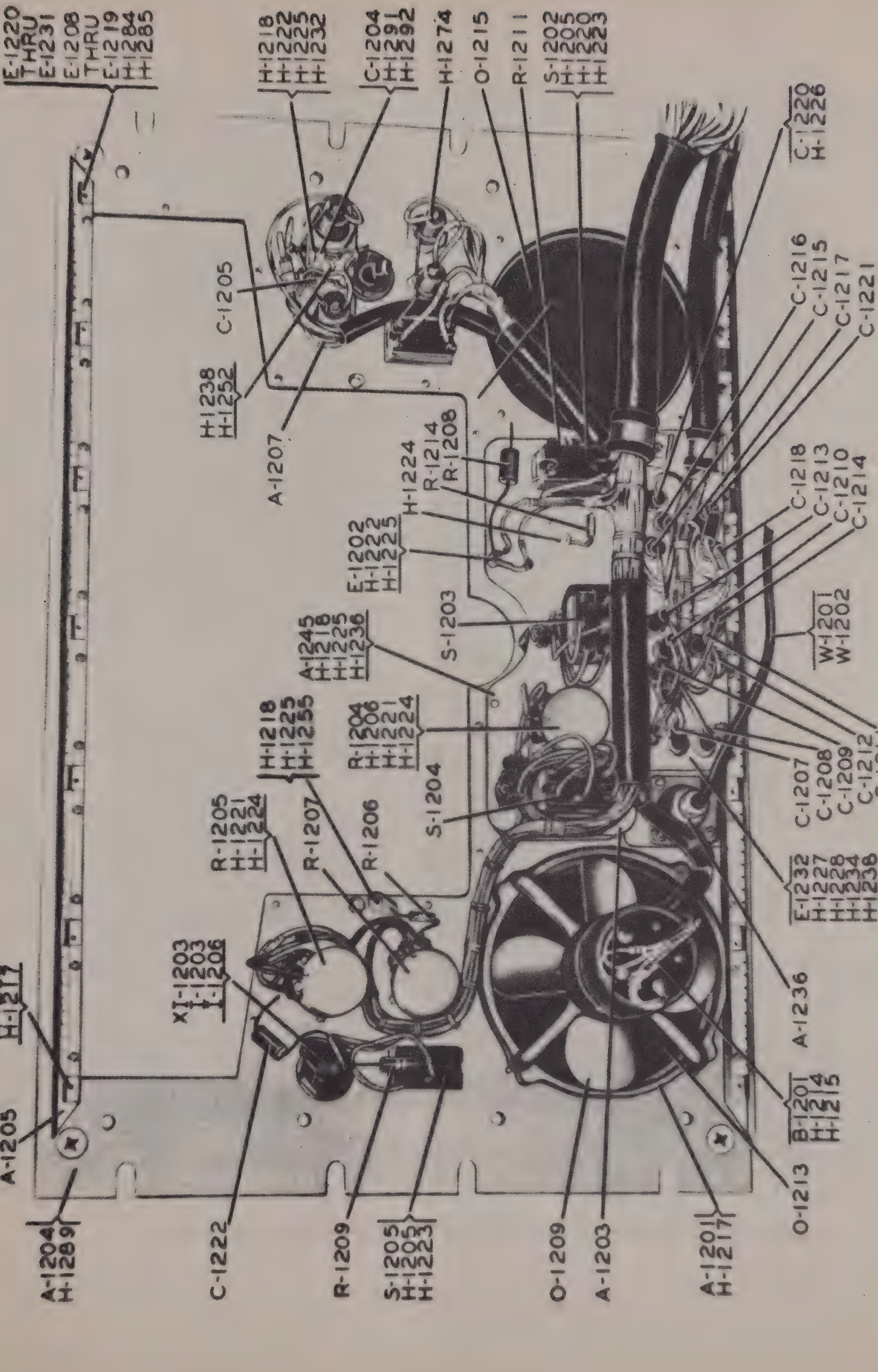

E-1220
THRU
E-1231
E-1208
THRU
E-1219
H-1284
H-1285
H-1218
H-1222
H-1225
H-1232
C-1204
H-1291
H-1292
H-1274
O-1215
R-1211
S-1202
H-1205
H-1220
H-1223
C-1220
H-1226
C-1205
H-1238
H-1252
A-1207
H-1224
R-1214
R-1208
E-1202
H-1222
H-1225
C-1216
C-1215
C-1217
C-1221
C-1218
C-1213
C-1210
C-1214
S-1203
A-1245
H-1218
H-1225
H-1236
W-1201
W-1202
H-1218
H-1225
H-1255
R-1204
H-1206
H-1221
H-1224
S-1204
R-1205
H-1221
H-1224
R-1207
R-1206
C-1207
C-1208
C-1209
C-1212
C-1211
E-1232
H-1227
H-1228
H-1234
H-1238
A-1208
H-1217
XI-1203
I-1203
I-1206
A-1236
B-1201
H-1214
H-1215
A-1205
A-1204
H-1289
C-1222
R-1209
S-1205
H-1203
H-1223
O-1209
A-1203
A-1201
H-1217
O-1213

Figure 24. Radio Receiver R-278B/GR, Front Panel, Rear View

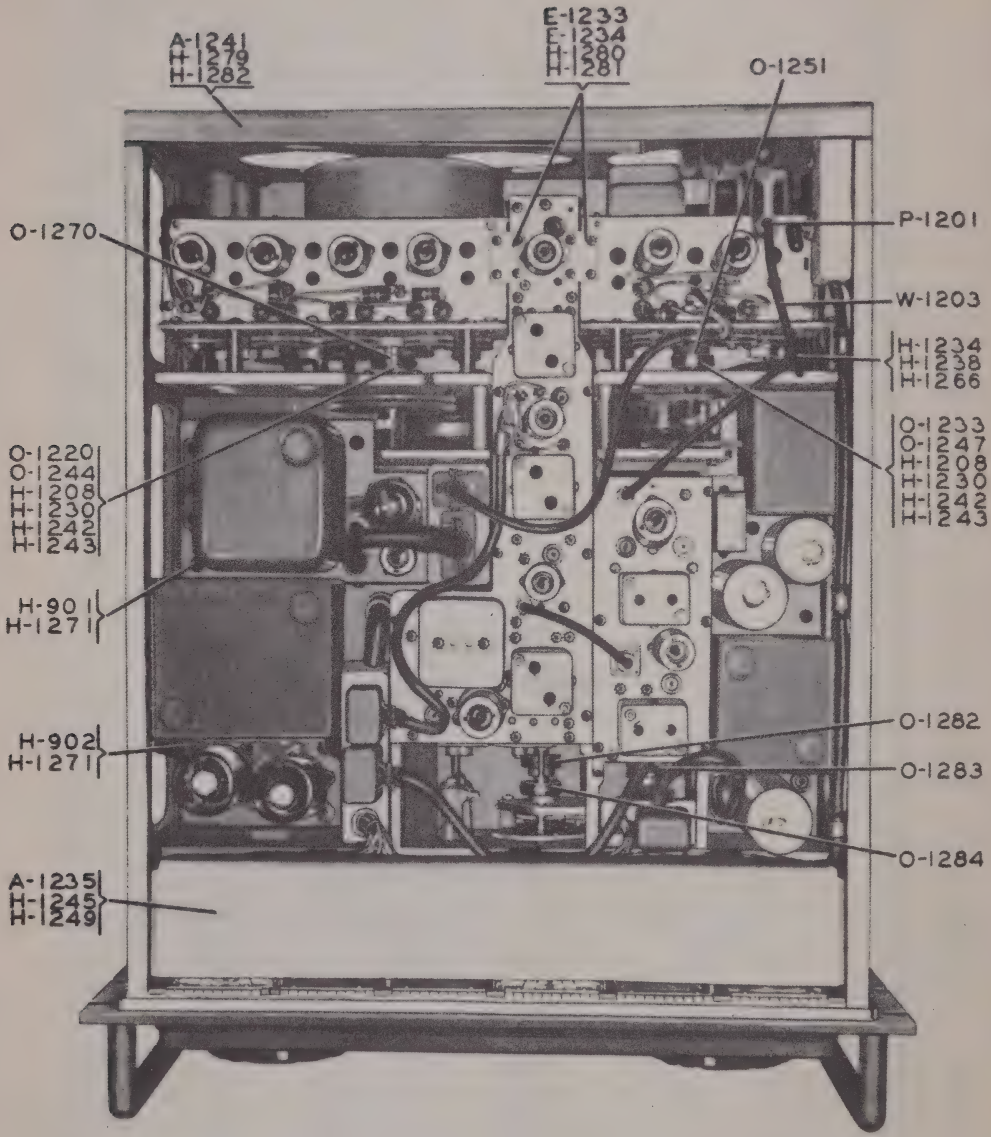

A-1241
H-1279
H-1282
E-1233
E-1234
H-1280
H-1281
O-1251
O-1270
P-1201
W-1203
H-1234
H-1238
H-1266
O-1233
O-1247
H-1208
H-1230
H-1242
H-1243
O-1220
O-1244
H-1208
H-1230
H-1242
H-1243
H-901
H-1271
H-902
H-1271
O-1282
O-1283
O-1284
A-1235
H-1245
H-1249

Figure 25. Radio Receiver R-278B/GR, Top View, Cover Removed

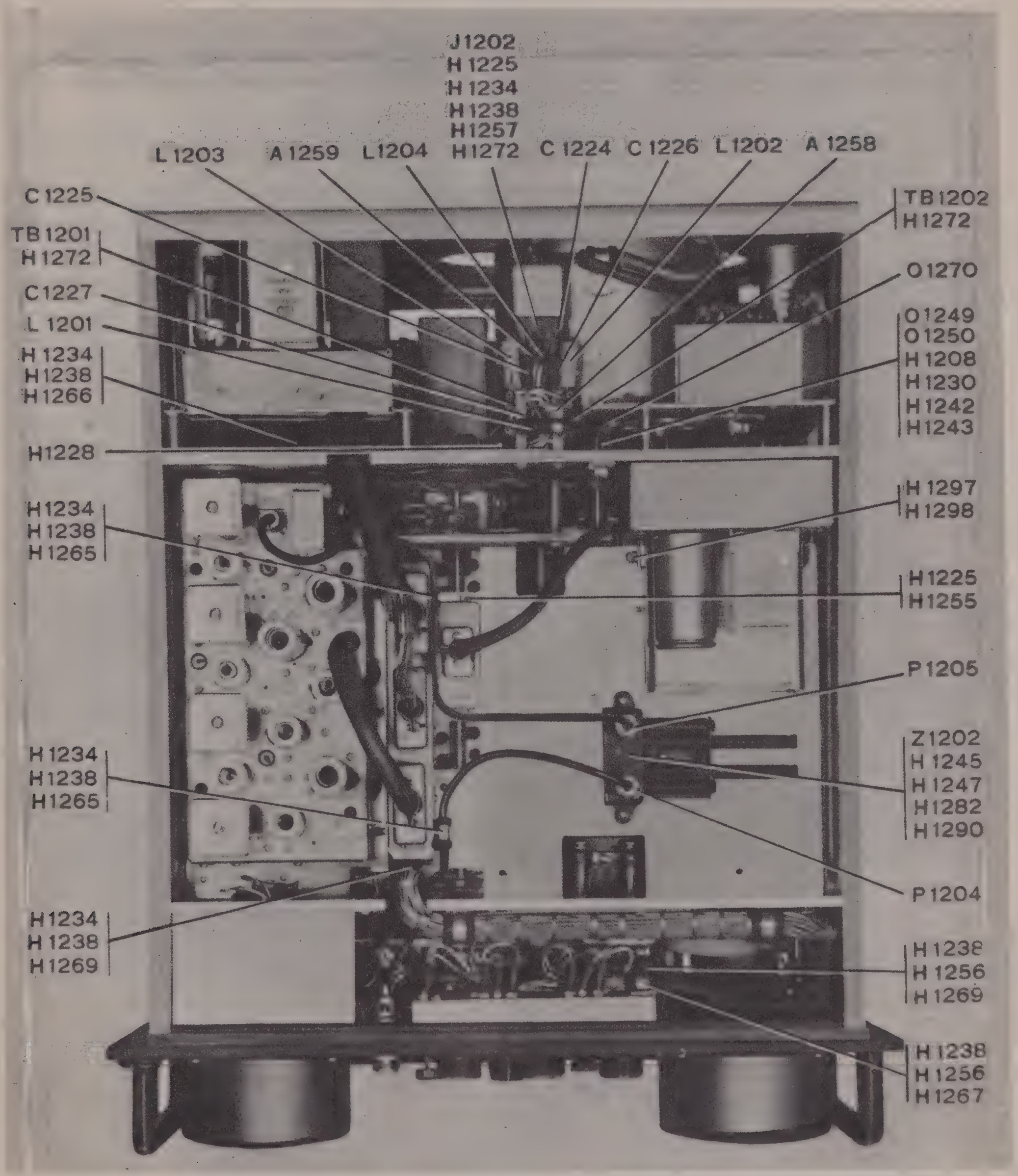
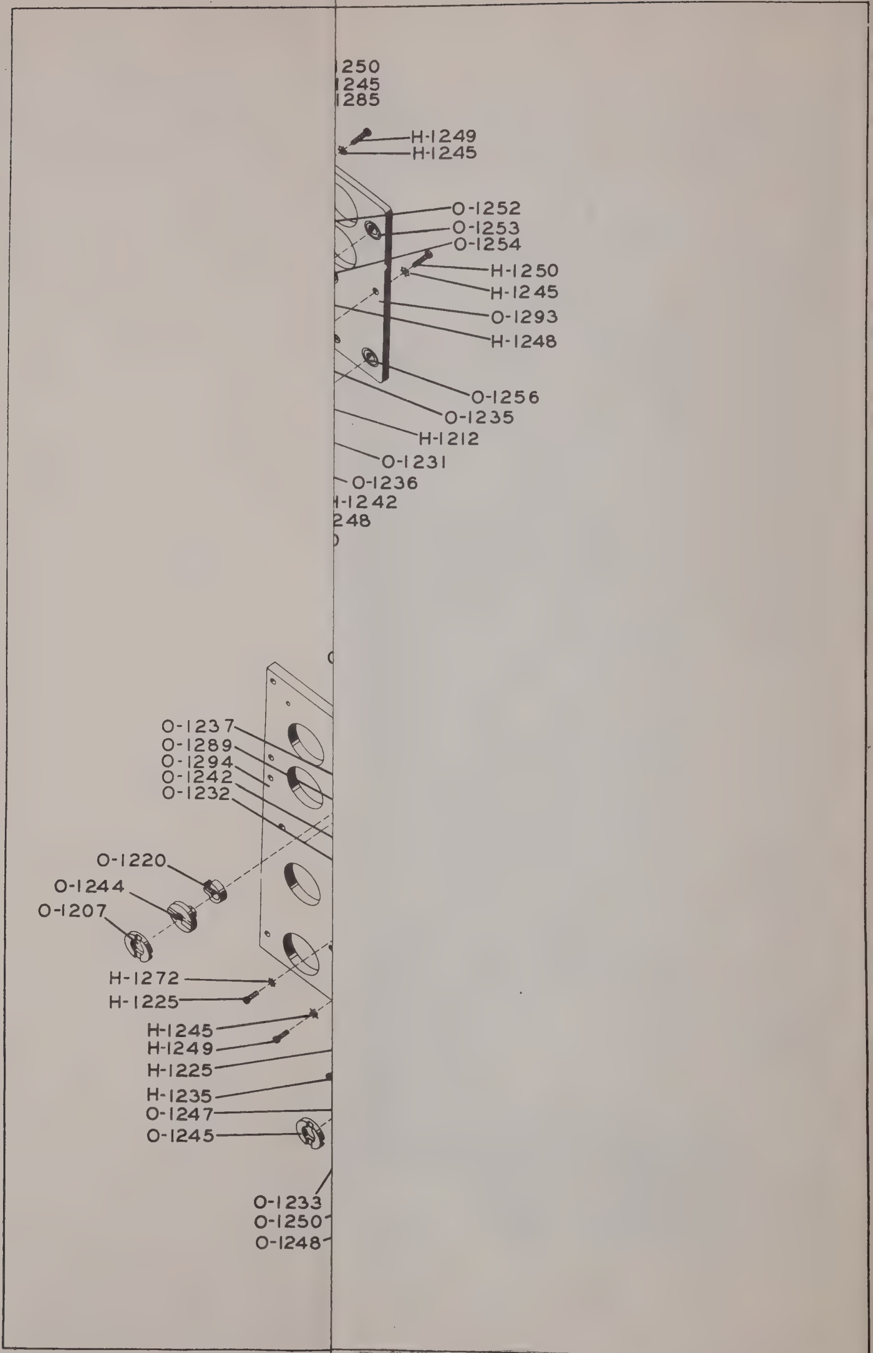

J1202
H1225
H1234
H1238
H1257
H1272
L1203
A1259
L1204
C1224
C1226
L1202
A1258
C1225
TB1201
H1272
C1227
L1201
H1234
H1238
H1266
H1228
H1234
H1238
H1265
H1234
H1238
H1265
H1234
H1238
H1269
TB1202
H1272
O1270
O1249
O1250
H1208
H1230
H1242
H1243
H1297
H1298
H1225
H1255
P1205
Z1202
H1245
H1247
H1282
H1290
P1204
H1238
H1256
H1269
H1238
H1256
H1267

Figure 26. Radio Receiver R-278B/GR, Bottom View, Cover Removed


1250
1245
1285
H-1249
H-1245
O-1252
O-1253
O-1254
H-1250
H-1245
O-1293
H-1248
O-1256
O-1235
H-1212
O-1231
O-1236
H-1242
248
O-1237
O-1289
O-1294
O-1242
O-1232
O-1220
O-1244
O-1207
H-1272
H-1225
H-1245
H-1249
H-1225
H-1235
O-1247
O-1245
O-1233
O-1250
O-1248

/GR, Main Gear Drive

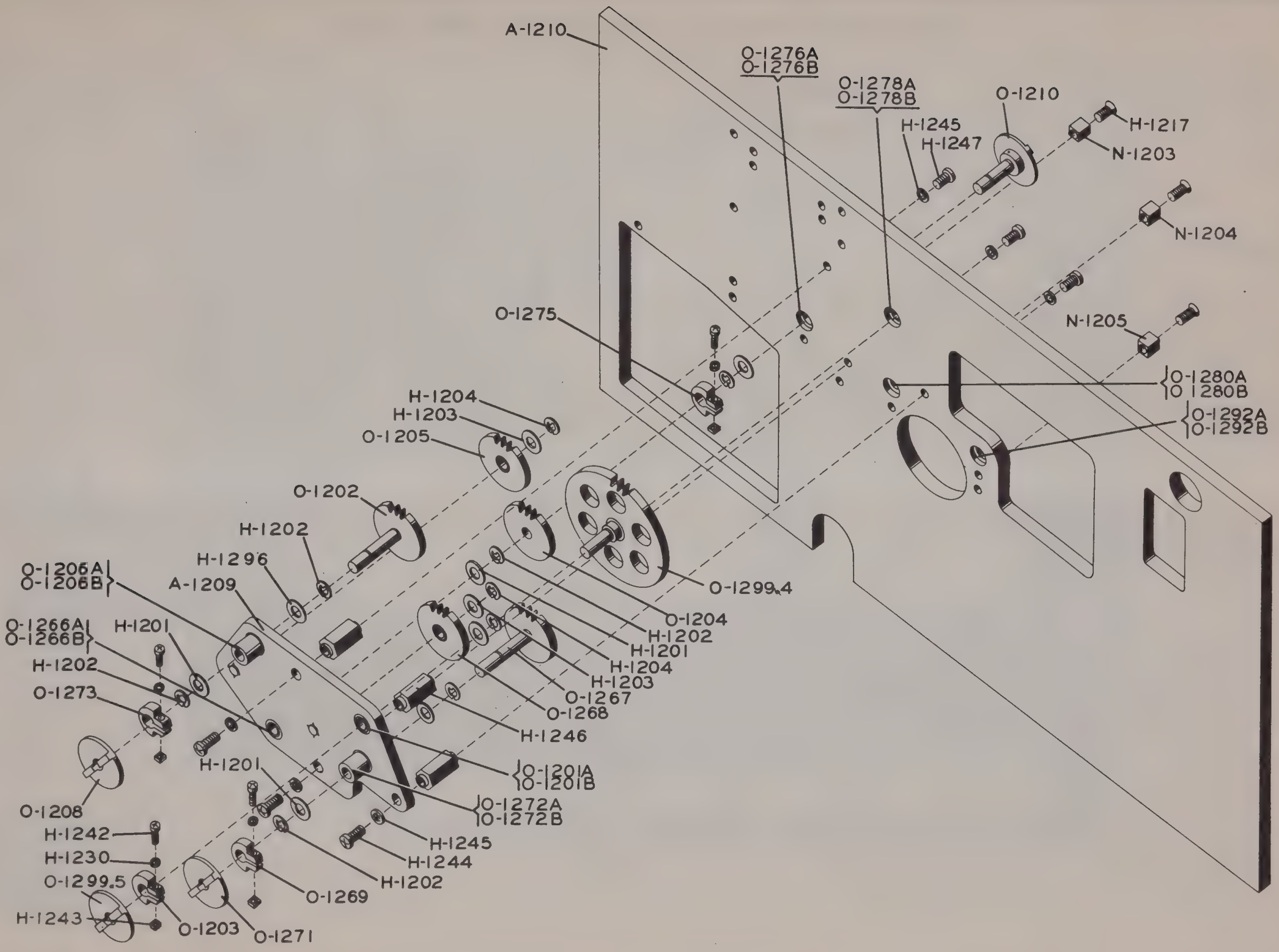

A-1210
O-1276A
O-1276B
O-1278A
O-1278B
O-1210
H-1245
H-1247
H-1217
N-1203
N-1204
N-1205
O-1275
O-1280A
O 1280B
O-1292A
O-1292B
H-1204
H-1203
O-1205
O-1202
H-1202
H-1296
O-1206A
O-1206B
A-1209
O-1299.4
O-1204
H-1202
H-1201
H-1204
H-1203
O-1267
O-1268
H-1246
O-1266A
O-1266B
H-1201
H-1202
O-1273
O-1201A
O-1201B
H-1201
O-1272A
O-1272B
O-1208
H-1245
H-1244
H-1242
H-1202
H-1230
O-1269
O-1299.5
H-1243
O-1203
O-1271

Figure 28. Radio Receiver R-278B/GR, Front Gear Drive

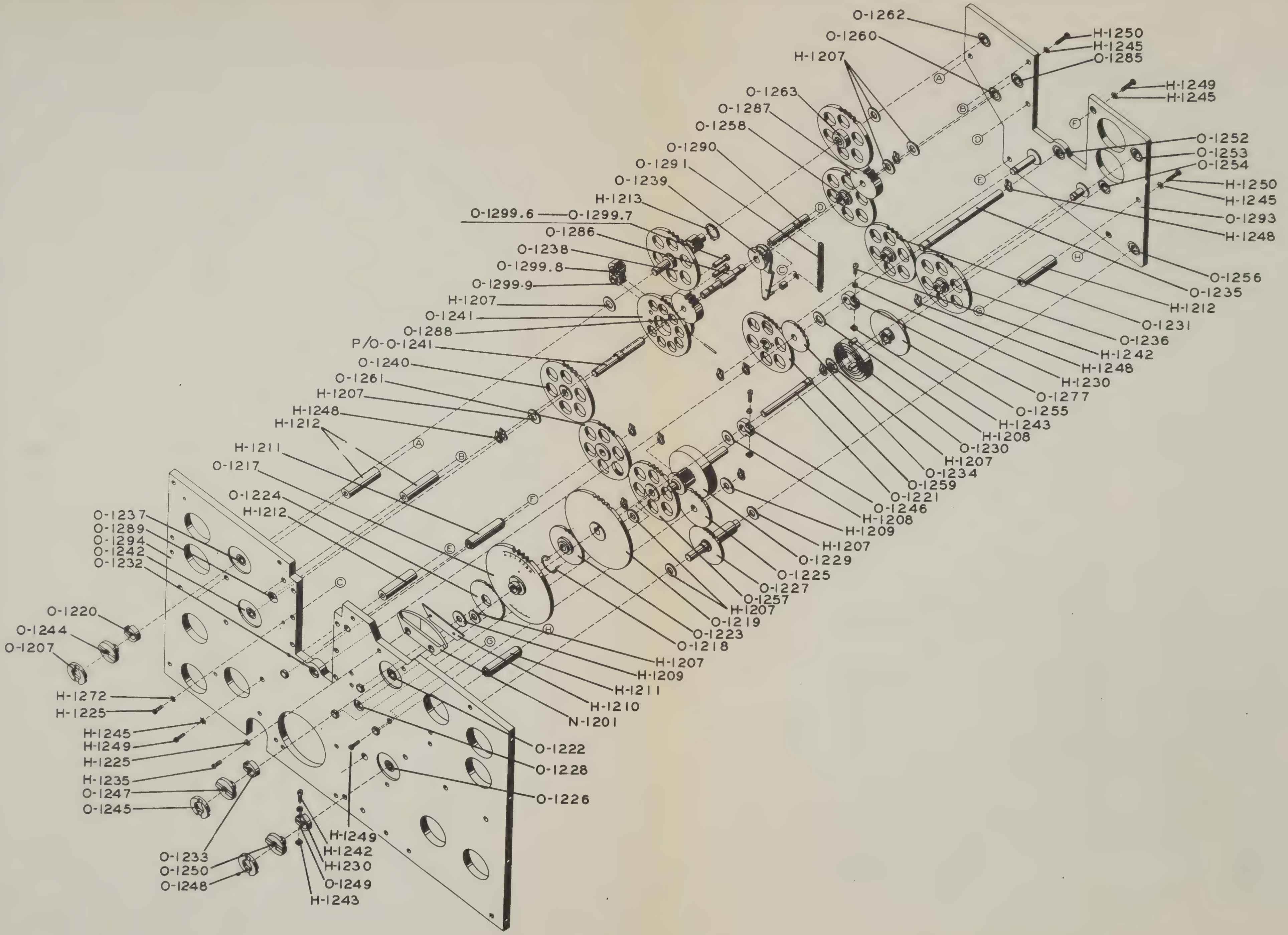

O-1262
O-1260
H-1207
H-1250
H-1245
O-1285
H-1249
H-1245
O-1263
O-1287
O-1258
O-1252
O-1253
O-1254
O-1290
O-1291
H-1250
H-1245
O-1239
O-1293
H-1213
H-1248
O-1299.6
O-1299.7
O-1286
O-1238
O-1256
O-1299.8
O-1235
O-1299.9
H-1212
H-1207
O-1231
O-1241
O-1236
O-1288
H-1242
P/O-O-1241
H-1248
O-1240
H-1230
O-1261
O-1277
H-1207
O-1255
H-1248
H-1243
H-1212
H-1208
O-1230
H-1211
H-1207
O-1217
O-1234
O-1259
O-1224
O-1221
H-1212
O-1246
H-1208
O-1237
H-1209
O-1289
H-1207
O-1294
O-1229
O-1242
O-1232
O-1225
O-1227
O-1257
H-1207
O-1219
O-1220
O-1223
O-1244
O-1218
O-1207
H-1207
H-1209
H-1272
H-1211
H-1225
H-1210
N-1201
H-1245
H-1249
O-1222
H-1225
O-1228
H-1235
O-1247
O-1226
O-1245
H-1249
H-1242
O-1233
H-1230
O-1250
O-1249
O-1248
H-1243
Ⓐ
Ⓑ
Ⓒ
Ⓓ
Ⓔ
Ⓕ
Ⓖ
Ⓗ

Figure 27. Radio Receiver R-278B/GR, Main Gear Drive

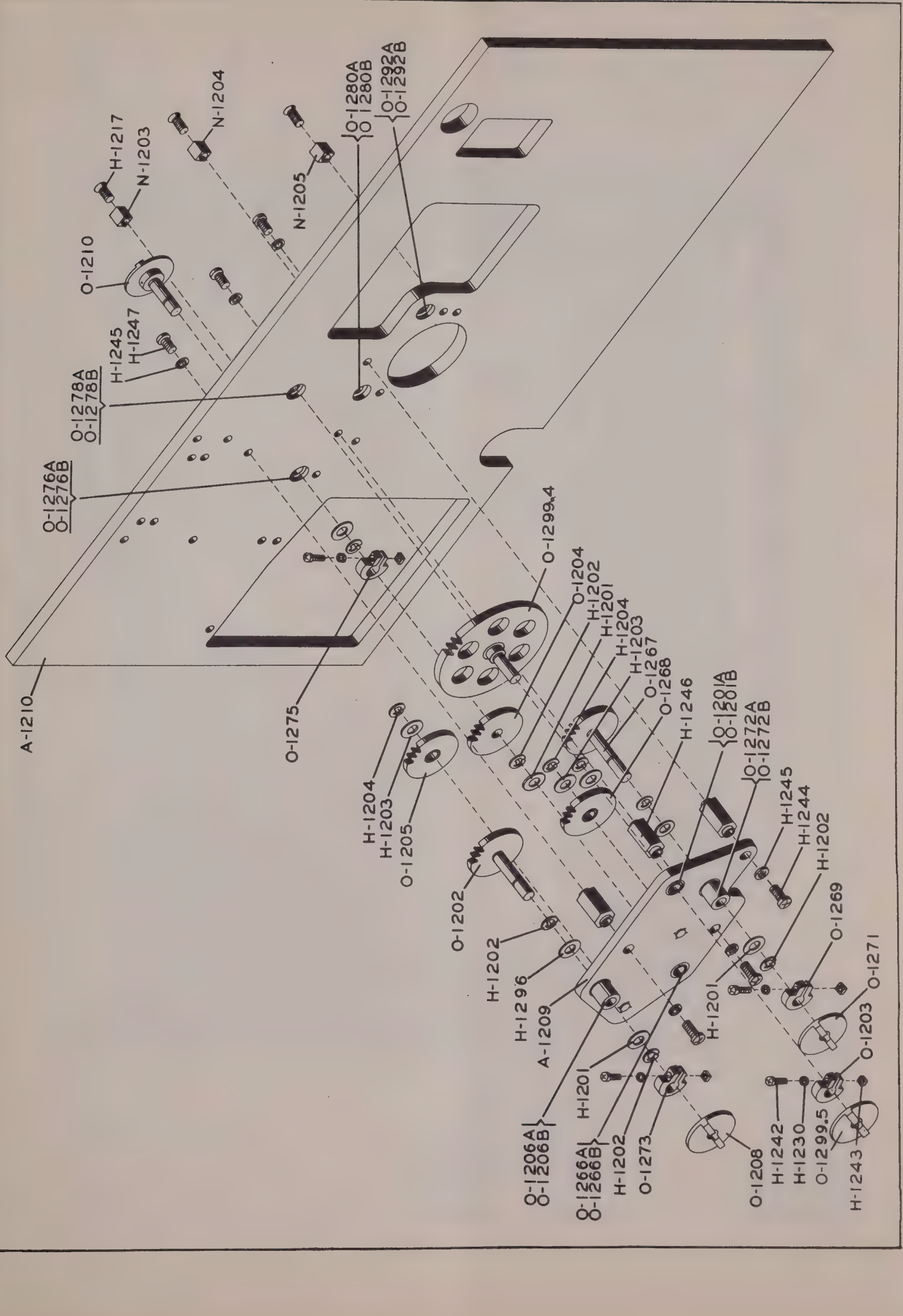

A-1210
O-1275
O-1276A
O-1276B
O-1278A
O-1278B
H-1245
H-1247
O-1210
H-1217
N-1203
N-1204
N-1205
O-1280A
O-1280B
O-1292A
O-1292B
O-1299.4
O-1204
H-1202
H-1201
H-1204
H-1203
O-1267
O-1268
H-1246
O-1201A
O-1201B
O-1272A
O-1272B
H-1245
H-1244
H-1202
O-1269
O-1271
O-1203
H-1204
H-1203
O-1205
O-1202
H-1202
H-1296
A-1209
H-1201
O-1206A
O-1206B
H-1201
O-1266A
O-1266B
H-1202
O-1273
O-1208
H-1242
H-1230
O-1299.5
H-1243

Figure 28. Radio Receiver R-278B/GR, Front Gear Drive

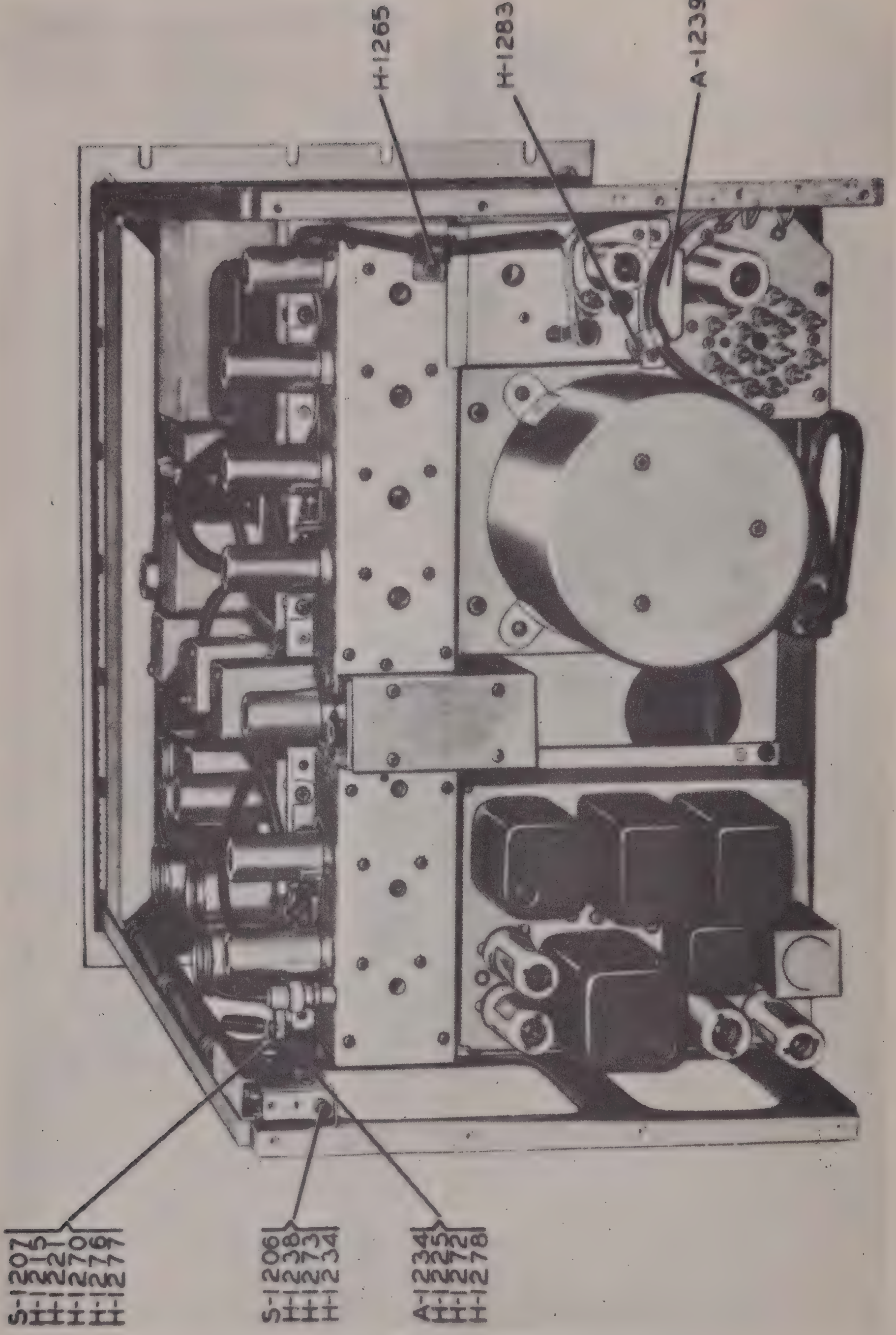

H-1265
H-1283
A-1239
S-1207
H-1215
H-1221
H-1270
H-1276
H-1277
S-1206
H-1238
H-1273
H-1234
A-1234
A-1225
H-1272
H-1278

Figure 29. Radio Receiver R-278B/GR, Rear View, Panel Removed

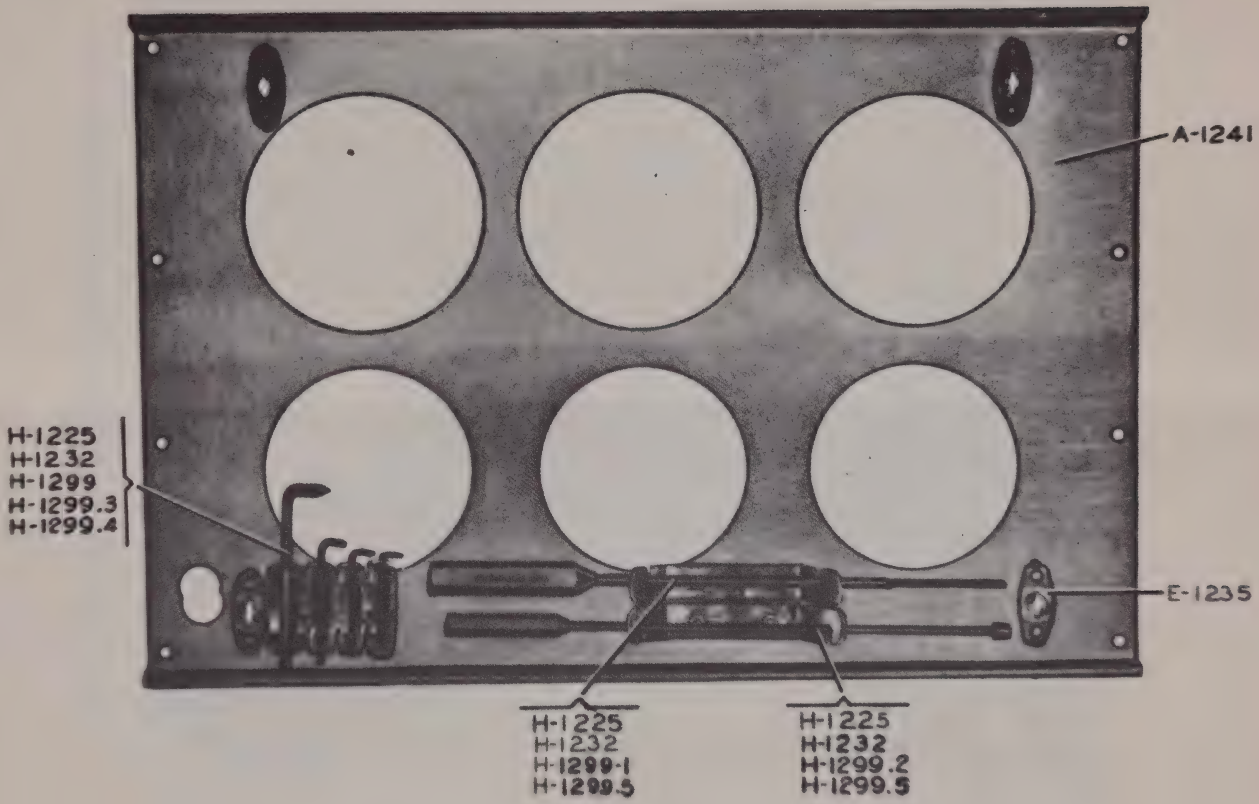

A-1241
E-1235
H-1225
H-1232
H-1299
H-1299.3
H-1299.4
H-1225
H-1232
H-1299-1
H-1299.5
H-1225
H-1232
H-1299.2
H-1299.5

Figure 30. Radio Receiver R-278B/GR, Front View of Rear Panel

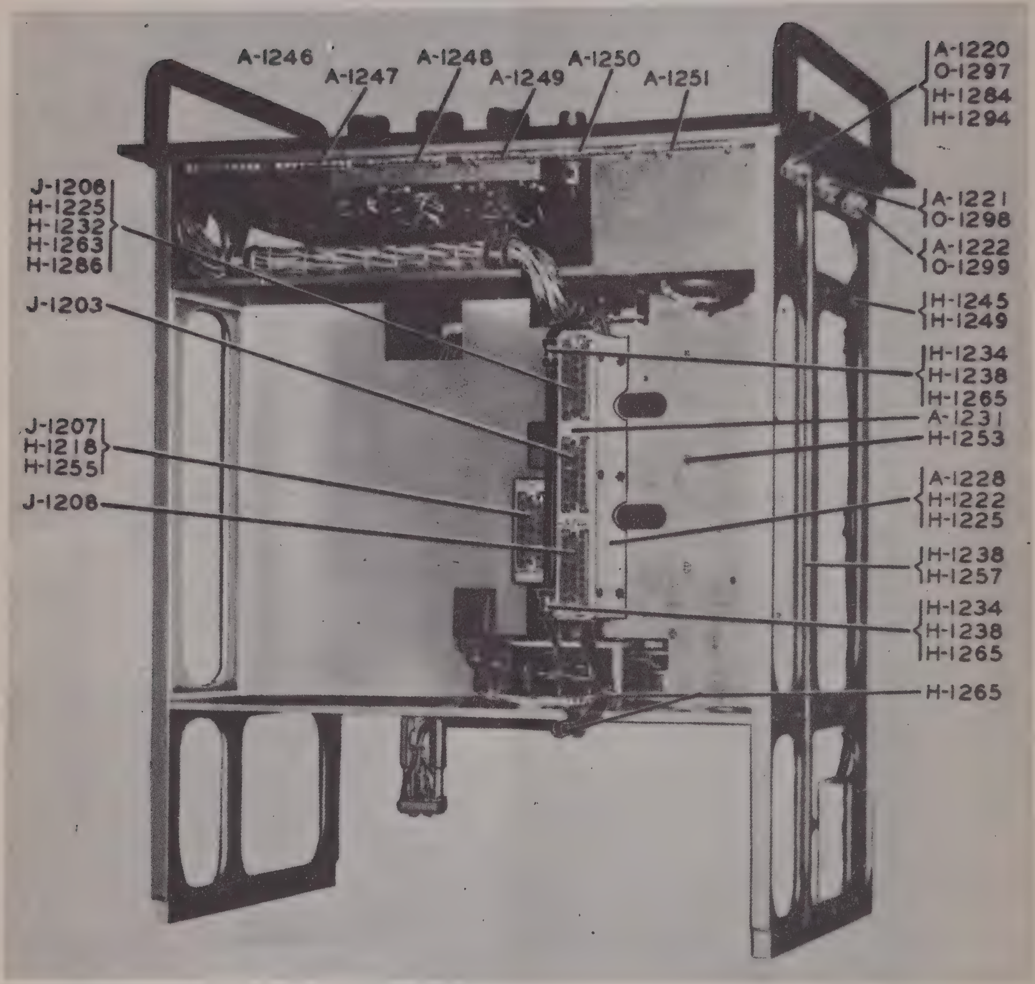

A-1246
A-1247
A-1248
A-1249
A-1250
A-1251
A-1220
O-1297
H-1284
H-1294
J-1206
H-1225
H-1232
H-1263
H-1286
A-1221
O-1298
A-1222
O-1299
J-1203
H-1245
H-1249
H-1234
H-1238
H-1265
A-1231
J-1207
H-1218
H-1255
H-1253
J-1208
A-1228
H-1222
H-1225
H-1238
H-1257
H-1234
H-1238
H-1265
H-1265

Figure 31. Radio Receiver R-278B/GR, Frame Assembly, Bottom View

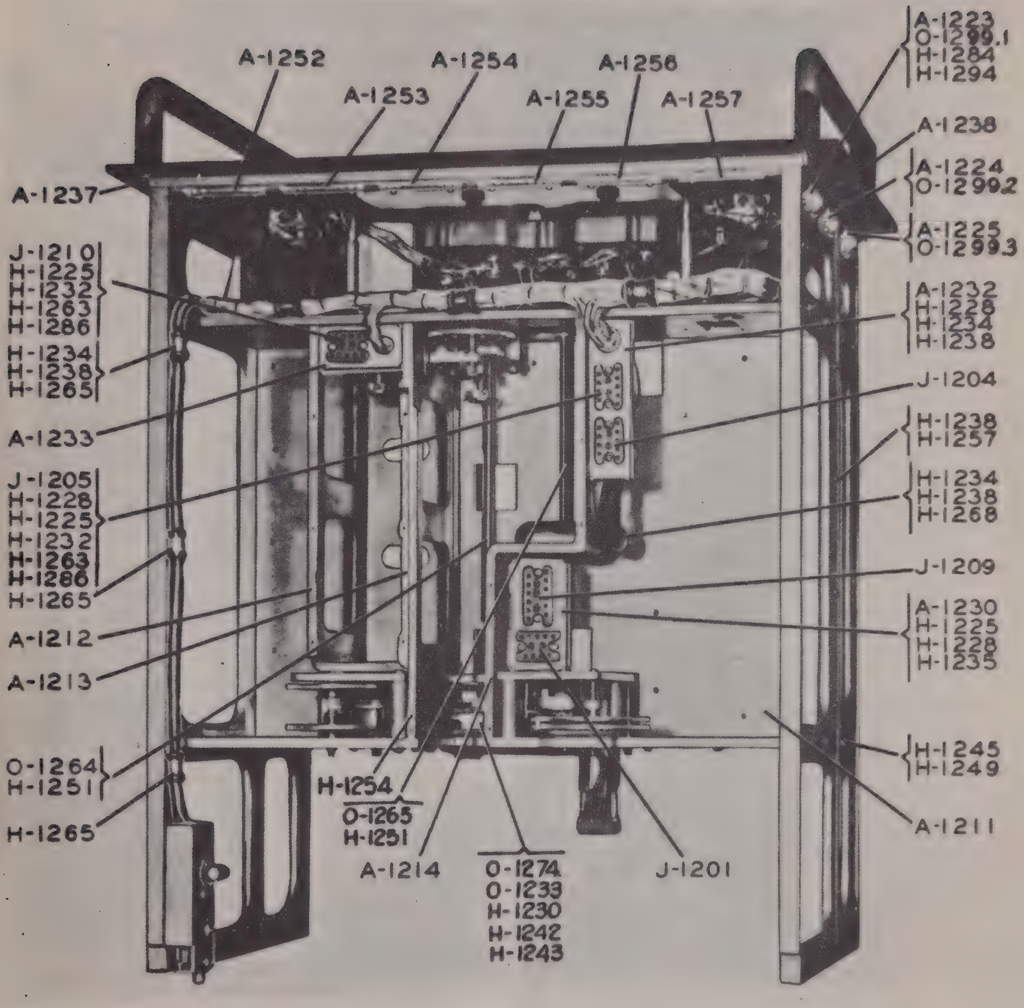

A-1252
A-1253
A-1254
A-1255
A-1256
A-1257
A-1237
A-1223
O-1299.1
H-1284
H-1294
A-1238
A-1224
O-1299.2
A-1225
O-1299.3
J-1210
H-1225
H-1232
H-1263
H-1286
H-1234
H-1238
H-1265
A-1233
J-1205
H-1228
H-1225
H-1232
H-1263
H-1286
H-1265
A-1212
A-1213
O-1264
H-1251
H-1265
A-1232
H-1228
H-1234
H-1238
J-1204
H-1238
H-1257
H-1234
H-1238
H-1268
J-1209
A-1230
H-1225
H-1228
H-1235
H-1245
H-1249
A-1211
H-1254
O-1265
H-1251
A-1214
O-1274
O-1233
H-1230
H-1242
H-1243
J-1201

Figure 32. Radio Receiver R-278B/GR, Frame Assembly, Top View

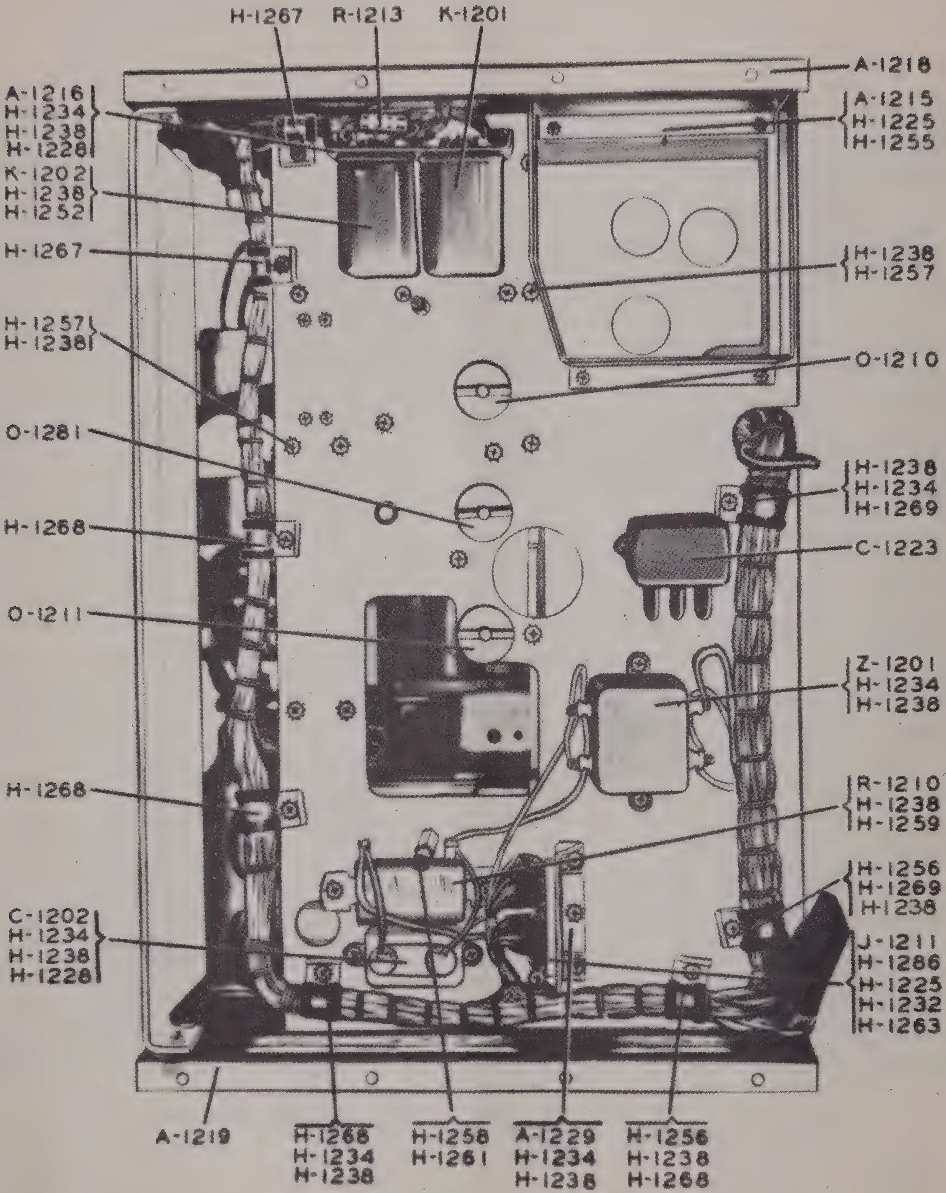

H-1267
R-1213
K-1201
A-1218
A-1216
H-1234
H-1238
H-1228
A-1215
H-1225
H-1255
K-1202
H-1238
H-1252
H-1267
H-1238
H-1257
H-1257
H-1238
O-1210
O-1281
H-1238
H-1234
H-1269
H-1268
C-1223
O-1211
Z-1201
H-1234
H-1238
H-1268
R-1210
H-1238
H-1259
H-1256
H-1269
H-1238
C-1202
H-1234
H-1238
H-1228
J-1211
H-1286
H-1225
H-1232
H-1263
A-1219
H-1268
H-1234
H-1238
H-1258
H-1261
A-1229
H-1234
H-1238
H-1256
H-1238
H-1268

Figure 33. Radio Receiver R-278B/GR, Front View, Front Panel Removed

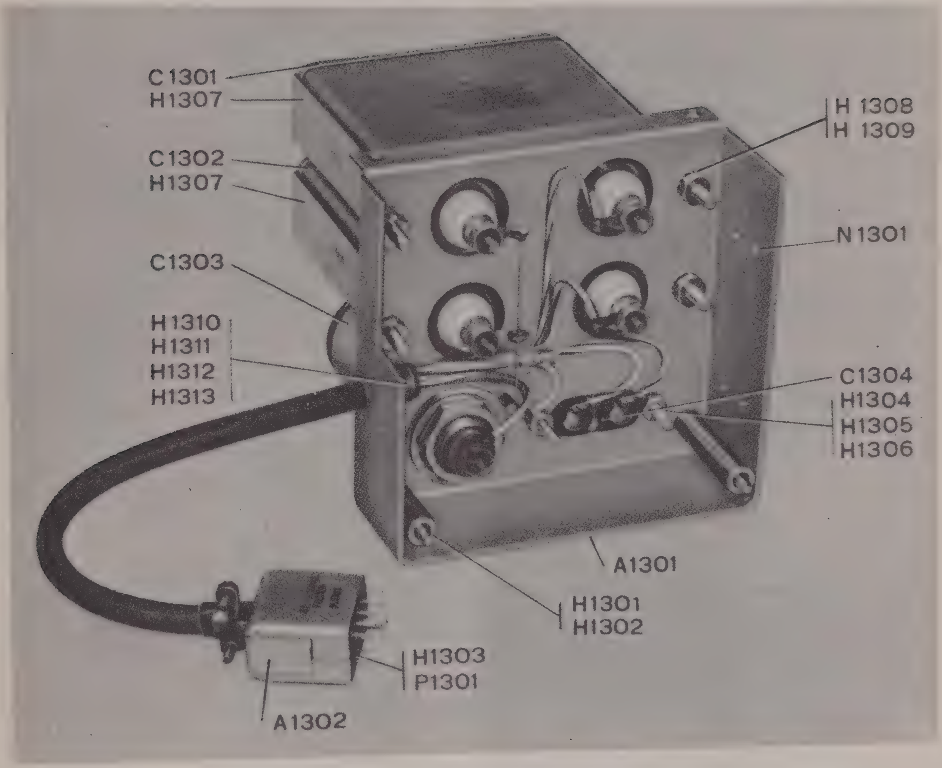

C1301
H1307
C1302
H1307
C1303
H1310
H1311
H1312
H1313
H 1308
H 1309
N1301
C1304
H1304
H1305
H1306
A1301
H1301
H1302
H1303
P1301
A1302

Figure 34. D/F Signal Filter

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
101-199 series		AMPLIFIER, RADIO FREQUENCY : 225. 0 to 399. 9 mc; amplr has a v gain of 20; 6-1/16" lg × 4-3/4" wd ×3-1/2" d less cable and cable connector; fil 6. 3 v AC, plate 230 v DS, AVC of minus 0. 3 to minus 3 v DC; incl 2 tubes and power input cable; mtd in main rec chassis and secured by captive screws; tunes linearly 1 mc per 1 deg of rotation, 3 RF tuners ganged together by gear train; p/o Army-Navy Receiver R-278B/GR - Collins Rad part/dwg #505 0175 004	
A-101		PLATE, MOUNTING : mts RF tuners; aluminum, chromate dipped; rectangular; 6-1/16" lg × 3-3/32" wd × 1. 124" d o/a; three mtg posts tapped #8-32 NC-2; black silk screening 3/32" h, letters and numbers; incl 2 idler posts spun and taked into plate; - Collins Rad part/dwg #505 0165 003	
A-102		COVER : rear, RF amplr; silver pl brass; « U » shape; 5/1/2" lg × 2. 314" wd 3/16" h o/a; eight 0. 141" diam mtg holes, 4 spaced on 4. 625" × 1. 844" mtg/c, 4 spaced on 1. 812" × 1. 125" mtg/c; three 0. 312" diam holes, spaced in one row in center of cover, 0. 436", 2. 243" and 4. 055" from one end - Collins Rad part/dwg #505 0161 003	
A-103		PLATE, ELECTRICAL SHIELD : shields capacitors, RF amplr; silver pl brass; irregular shape; 1-25/32" lg × 1" wd × 0. 281" thk o/a; three 0. 155" diam mtg holes spaced on 1. 533" × 0. 627" mtg/c; - ACEC part/dwg #ACEC 505 0155 002, substitute for Collins Rad part/dwg #505 0155 002	
A-104		PLATE : Same as A-103 (p/o C-111)	
A-105		CHASSIS : RF amplr; one connector receptacle with female contact spun and staked into chassis, 2 shields silver soldered to chassis, brass chassis, shields, connector with thermoplastic ins and beryllium copper contact; 5.446" lg × 2. 422" wd × 2. 895" h o/a; 7 brass inserts tapped #4-40 NC-2 spun and staked into chassis; black silk screening 3/32" h letters and numerals; ACEC port/dwg #ACEC 505 0164 003, substitute for Collins Rad part/dwg #505 0164 003 (incl J-101)	
A-106		COVER : for bottom of RF amplr; silver pl brass; « L » shape; 5. 906" lg × 2. 485" wd × 2. 375" d o/a; five 0. 141" diam mtg holes, 2 in one flange, 3 in other flange; black silk screening letters and numerals 3/32" h; 2 inserts in cover 4. 625" c to c, schematic diagram stamped Collins Rad part-dwg #505 9420 002; - Collins Rad part/dwg 505 9940 003.	
A-107		COVER, ELECTRICAL CONNECTOR : connector ; anodized aluminum cover with cad pl steel clamp and screws; rectangular; 1. 259" lg × 31/32" wd × 1-3/4" h o/a; 2 mtg flanges inside of cover, one on each side. tapped #4-40, 0. 375" diam cable opening; black silk screening « P-101 RF AMPLIFIER » 3/32" h on front of cover; incl two #6-32 NC-2 screws in cable clamp on top of cover; - Collins Rad part/dwg #505 1713 001	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR.	
A-108		PLATE, ANCHOR : Anchors case cont to panel; silver pl brass; rectangular; 2-5/32" lg × 3/16" wd × 0. 032" thk o/a; two 0. 109" diam mtg holes spaced 1. 500" c to c; ACEC part/dwg # ACEC 505 0768 002, substitute for Collins Rad part/dwg #505 0768 002	
C-101	3330- 055 350 032	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 4. 0 mmf ± 1/4 mmf tol; temp coef 0, pos tol 60 mmf/mf/°C; style 1, Ref Dwg Group 1; unins body; 0. 435" lg × 0. 200" diam; 2 term radial wire lead type, 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; Collins Rad part/dwg #916 0113 00; JAN spec JAN-C-20A, type CC20CH040C.	
C-102		CAPACITOR : c/o A-103, A-105, E-116.	
C-103	3330- 312 736 285	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 2. 0 mmf ± 1/4 mmf tol; temp coef 0, pos tol 250 mmf/mf/°C; style 1, Ref Dwg Group 1; unins body; 0. 435" lg × 0. 200" diam; 2 term radial wire lead type 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; Collins Rad part/dwg #916 0075 00; JAN spec JAN-C-20A, type CC20CK020C	
C-104		Not Used	
C-105	3330- 314 693 539	CAPACITOR, FIXED, MICA DIELECTRIC : 500 mmf p/m 20% ; 500 vdcw; temp coef letter E; 0. 463" diam × 0. 080" d max, less term; brass, silver pl case; 2 axial solder lug term; chasiss mtd by three tabs equally spaced on 120 deg; oil impr, resin seal coated w/ varnish; - Collins Rad part/dwg #912 0667 00	
C-106		CAPACITOR : Same as C-105	
C-107	3330 PE- 960 610	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 20 mmf ± 5% tol ; temp coef 0 ; pos tol 60 mmf/mf/°C ; style 1, Ref Dwg Group 1 ; ins body ; 0.550" lg, 0.315" diam ; 2 term radial wire lead type; 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; ACEC part/dwg #ACEC 928 4188 00; substitute for Collins Rad part/dwg #928 4188 00	
C-108		CAPACITOR : Same as C-105	
C-109		Not Used	
C-110		CAPACITOR : Same as C-103	
C-111		CAPACITOR : c/o A-104, A-105, E-105	
C-112		CAPACITOR : Same as C-105	
C-113		CAPACITOR : Same as C-105	
C-114		CAPACITOR : Same as C-107	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
C-115		CAPACITOR : Same as C-105	
C-116		Not Used	
C-117		CAPACITOR : Same as C-103	
E-101	5975 PE- 930 553	CAP, ELECTRICAL : tube : JAN type #SOS6; steel, cad pl; round, open top; bayonet mtg; 0. 810" ID × 1-3/4" lg inside; w/ inside spring; JAN spec JAN-S-28; - Collins Rad part/dwg #141 0112 00	
E-102		CAP : Same as E-101	
E-103	8880- 888 000-2045	TERMINAL, STUD : molded melamine body, terminal brass, hot tin dipped, insert, brass, cad pl; hex post shape; 9/16" lg o/a, 3/8" lg less term, 1/4" across flats; #4-40 NC-2 tapped 5/32" d one end, slotted solder lug other end; - Collins Rad part/dwg #306 0091 00	
E-104		Not Used	
E-105		INSULATOR, PLATE : irregular shape; clear to slightly stained electrical mica; 1-27/32" lg o/a; 1-1/16" wd × 0. 010" thk o/a, three 0. 082" diam mtg holes spaced on 1. 531" × 0. 625" mtg/c; - Collins Rad part/dwg #505 0154 002; (p/o C-111)	
E-106		Not Used	
E-107		Not Used	
E-108		Not Used	
E-109		Not Used	
E-110	1700- 019 252 500	CONTACT, CASE : grounds one RF stage to another; beryllium copper, silver pl; rectangular; 2-5/32" lg × 5/16" wd × 3/16" h o/a; 2 slots, 0. 140" wd, spaced 1. 500" c to c for mtg; ten fingers bent to 1/8" radius; - Collins Rad part/dwg #505 7963 002	
E-111		Not Used	
E-112		Not Used	
E-113		Not Used	
E-114		Not Used	
E-115		TERMINAL : Same as E-103	
E-116		INSULATOR : Same as E-105	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-101		SCREW, CAPTIVE : Phillips drive; Bind H; type #430 SS; #8-32 NC-2; 1. 490" lg; 0. 500" lg threaded; 0. 115" thk; 0. 321" diam head; unthreaded portion 7/8" lg × 0. 118" diam, head red E; - Collins Rad part/dwg #505 0038 002; (3 each used)	
H-102		WASHER, FLAT : type #302 steel; round 9/16" OD, 0. 032" thk 0. 318" ID; - Collins Rad part/dwg #505 0036 002; (3 each used)	
H-103		WASHER, FLAT : SS; round, 0. 257" ID, 7/16" OD, 0. 016" thk; - Collins Rad part/dwg #504 7461 001; (2 each used)	
H-104		RING, RETAINER : for use on 0.250" diam shaft; spring steel, cad pl; 0. 225" ID × 0. 025" thk o/a; 0. 41" min clearance diam when ring spread over shaft; - Collins Rad part/dwg #340 0025 00; (2 each used)	
H-105		WASHER, LOCK : SS type #302, plain finish; round 0. 168" min ID, 0. 296" max OD, 3/64" thk; split lock; - Collins Rad part/dwg #310 0072 00; (3 each used)	
H-106		WASHER, LOCK : SS; round; 0.187" OD x 0.125" ID x 0.0312" thk; split-ring type; - Collins Rad part/dwg #310 3340 00; (3 each used)	
H-107		SCREW, MACHINE : Bristo drive; FH, unfinished; hardened steel alloy, cad pl; #4-40 NC-2; 1/2" lg; threaded to head; - Collins Rad part/dwg #324 0300 00; (3 each used)	
H-108		CLAMP : shaft; aluminum; anodized; 0. 656" lg × 0. 656" wd × 0. 200" thk; single 0. 116" diam mtg hole; accom 0. 312" diam cable; - Collins Rad part/dwg #504 7537 002; (2 each used)	
H-109		NUT, SQUARE : cad pl steel; #4-40 NC-2; 0. 062" thk; 3/16" sq; - Collins Rad part/dwg #334 0485 00; (2 each used)	
H-110		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished; cold headed; brass, nickel pl; #4-40 NC-2; 3/16" lg; threaded to head; head 0. 219" diam × 0. 080" thk; - Collins Rad part/dwg #343 0284 00; (2 each used)	
H-111		WASHER, LOCK: cad pl, phosphor bronze; round, 0. 250" OD, 0. 016" thk;shakeproof type, tw ext teeth; for #4 screw; - Collins Rad part/dwg #373 7010 00; (42 each used)	
H-112		CLAMP : cable aluminum; one bolt employed, 11/64" diam hole, 13/64" diam hole; 15/16" lg × 11/16" wd; 1/4" cable; ins w/ flame resistant plastic; - Collins Rad part/dwg #139 0004 00	
H-113		TERMINAL, LUG : flat shakeproof; phosphor bronze; hot tin dipped; 23/32" lg × 5/16" wd × 0. 018" thk o/a w/ 0. 116" stud hole; solder connects to wire; - Collins Rad part/dwg #304 3110 00	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-114		NUT, PLAIN, HEXAGON : brass, nickel pl; #4-40 NC-2; 3/32" thk; width across flats 1/4" double chamfered; - Collins Rad part/dwg #313 0051 00; (4 each used)	
H-115		NUT, PLAIN, HEXAGON : steel, cad pl; #6-32 NC-2; 7/64" thk; 5/16" wd across flats; double chamfered; - Collins Rad part/dwg #313 0117 00	
H-116		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished, cold headed, brass, nickel pl; #4-40 NC-2; 1/4" lg; threaded to head; head 0. 219" diam × 0. 080" thk; - Collins Rad part/dwg #343 0285 00; (21 each used)	
H-117		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished, cold headed; brass, nickel pl; #4-40 NC-2; 5/16" lg; threaded to head; head 0. 219" diam × 0. 080" thk; Collins Rad part/dwg #343 0286 00; (17 each used)	
H-118		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished, cold headed; steel, cad pl; #6-32 NC-2; 3/8" lg; threaded to head; head 0. 270" diam × 0. 097" thk; - Collins Rad part/dwg #343 0493 00	
H-119		WASHER, LOCK : steel, cad pl; round, 5/16" OD, 0. 020" thk; tw ext teeth, shakeproof type; for #6 machine screw; Collins Rad part/dwg #373 5020 00	
H-120	5970-284-8 486	INSULATOR, BUSHING : round; ceramic, grade L-4, unglazed; 0. 113" lg; 0. 095" ID, 5/16" OD; ACEC part/dwg #ACEC 504 8815 002, substitute for Collins Rad part/dwg #504 8815 002; (6 each used)	
H-121		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished, cold headed; steel, cad pl; #4-40 NC-2; 7/16" lg; threaded to head; Collins Rad part/dwg #343 0424 00; (2 each used)	
H-122		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished, cold headed; brass, nickel pl; #4-40 NC-2; 7/16" lg; threaded to head; head 0. 219" diam × 0. 080" thk; Collins Rad part/dwg #343 0288 00; (2 each used)	
H-123		WASHER, LOCK : phosphor bronze, cad pl; round, 0. 180" OD, 0. 012" thk; shakeproof type, tw int teeth; for #2 screw; Collins Rad part/dwg #373 3120 00; (6 each used)	
H-124		Not used	
H-125		Not used	
H-126		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; brass, nickel pl; #2-56 NC-2; 1/4" lg; threaded to head; head 0. 167" diam × 0. 062" thk; Collins Rad part/dwg #343 0299 00; (6 each used)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-127		NUT, PLAIN, HEXAGON : brass, nickel pl; 2-56 NC-2; 0. 066" thk; 3/16" wd across flats; double chamfered; Collins Rad part/dwg #313 0050 00; (6 each used)	
J-101	8850-666 435	CONNECTOR, RECEPTABLE, ELECTRICAL : single round female cont; 1-5/64" lg × 15/32" diam; round brass body; thermoplastic GE #1422 insert; spun in mtg on panel; bayonet locking; Collins Rad part/dwg #357 9106 00; (p/o A-105)	
L-101		COIL, RADIO FREQUENCY : antenna coupling; unshielded; 1/2 turn #16 tinned copper wire forming right angles 3/8" from base at one end ,1/2" from base at other end; 3/4" lg; - Collins Rad part/dwg #505 3819 002	
L-102	3340 307818573	COIL, RADIO FREQUENCY : choke two wnd, single layer wnd; unshielded; each section 0. 35 uh plus 40 %, minus 0 at 25 mc; each coil 15 turns at 22 turns per inch or #24 E wire; 13/16" lg × 11/32" diam molded phenolic grade QPO-218 or better form; 7/32" diam × 3/4" lg coil form; four axial wire leads 1-7/16" lg Durez #9841 dip coating; - Collins Rad part/dwg #240 0074 00	
L-103		Not used	
L-104		COIL : Same as L-102	
N-101		PLATE, INSTRUCTION : RF amplifier schematic, R-278B/GR; aluminum; rectangular; 2-3/16" lg × 1-5/8" wd × 0. 031" thk o/a; our 0. 106" diam holes spaced on 1. 375" × 1. 937" mtg/c; black background w/low gloss anodized aluminum lines and characters; Collins Rad part/dwg #505 9420 002	
O-101		GEAR, SPUR : anodized aluminum; main drive gear, drives RF tuners; straight teeth; 54 teeth; 48 pitch, 1. 125" PD; 1. 187" OD × 0. 218" gear face wd; straight face; hub 0. 188" thk × 0. 312" diam, four 0. 032" wd × 0. 188" d slots equally spaced; 0. 2500" ID for shaft mtg; Collins Rad part/dwg #505 0035 002	
O-102		GEAR, SPUR : anodized aluminum; drives RF tuner; straight teeth; 54 teeth; 48 pitch, 1. 125" PD; 1. 164" OD × 0. 093" gear face wd; straight face; hub 0. 375" thk o/a, 0. 562" OD × 0. 063" thk, 0. 3745" OD × 0. 068" thk, 0. 312" OD × 0. 244" thk, four 0. 032" wd × 0. 229" d slots equally spaced; 0. 2500" ID for shaft mtg; ACEC part/dwg #ACEC 505 0034 002, substitute for Collins Rad part/dwg #505 0034 002	
O-103		GEAR : Same as O-102	
O-104		GEAR, SPUR : anodized aluminum; idler; straight teeth; 54 teeth; 48 pitch, 1. 125" PD; 1. 171" OD × 0. 093" gear face wd; straight face; hub 0. 127" thk o/a, max OD 0. 562" × 0. 059" thk, min OD 0. 3745" × 0. 068" thk; 0. 2500" ID for shaft mtg; ACEC part/dwg #ACEC 505 0033 002, substitute for Collins Rad part/dwg #505 0033 002	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-105		GEAR : Same as O-104	
O-106		GEAR, SPUR : anodized aluminum; idler; straight teeth; 54 teeth; 48 pitch, 1. 125" PD; 0. 218" OD × 0. 064" gear face wd; straight face; 0. 3750" ID for shaft mtg; ACEC part/dwg #ACEC 505 0032 002, substitute for Collins Rad part/dwg #505 0032 002	
O-107		GEAR : Same as O-106	
O-108		GEAR : Same as O-106	
O-109		GEAR : Same as O-106	
O-110	1700- 019 246 700	SPRING, HELICAL TENSION : gear loading; 0. 045" diam music wire, cad pl; 25/32" diam; 2 term 90 deg apart, one bent left, one bent right, coming within 5/8" of making a complete turn; Collins Rad part/dwg #505 0037 002	
O-111		SPRING : Same as O-110	
O-112		HUB : coupler, clamp; type #303 steel; round; 1" OD, 0. 343" thk o/a, 5. 1553" wd × 0. 062" d raised portion across center, 13/32" wd × 0. 219" thk hub; 0. 3125" ID for shaft mtg, #4-40 NC-2 tapped hole 0. 171" d for holding cable securely; corrosion resistant; - Collins Rad part/dwg #505 0039 002	
P-101	5935- 257-9 970	CONNECTOR, PLUG, ELECTRICAL : 11 round male pol cont; straight; 1. 171" lg × 0. 750" wd × 0. 405" thk; rectangular; phenolic ins; two 0. 125" diam mtg holes spaced 0. 864" c to c; Collins Rad part/dwg #372 1074 00	
R-101	3350- 454 000-5821	RESISTOR, FIXED, WIRE-WOUND : JAN type #RU3B 101J; 100 ohm p/m 5 %; 1/2 w; 21/32" lg × 15/64" max diam; resistant to moisture; 2 axial wire lead term; low power resistor; JAN spec JAN-R-184; Collins Rad part/dwg #707 9213 00	
R-102	5905 PE- 971 770	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 470,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; Collins Rad part/dwg #745 1198 00; JAN spec JAN-R-11, type RC20BF474K; for general purpose use	
R-103	5905 PE- 971 734	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 220, 000 ohm p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; Collins Rad part/dwg #745 1184 00; JAN spec JAN-R-11, type RC20BF24K; for general purpose use	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
R-104	5905 PE- 971 753	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 5, 600 ohms p/m 10 % tol; 2 w power dissipation; temp characteristic letter E; 0. 750" lg × 0. 370" diam max; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; Collins Rad part/dwg #745 9129 00; JAN spec JAN-R-11, type RC42BE562K; for general purpose use	
R-105		RESISTOR : Same as R-101	
R-106	5905 PE- 971 731	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 100, 000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; Collins Rad part/dwg #745 1170 00; JAN spec JAN-R-11, type RC20BF104K; for general purpose use	
R-107		RESISTOR : Same as R-106	
R-108		RESISTOR : Same as R-104	
V-101	5060- 188-8 537	ELECTRON TUBE : UHF amp triode, grounded-grid type; glass envelope, miniature, 7 terminations, pin type; JAN type 6J4; Collins Rad part/dwg #254 0639 00; MIL spec MIL-E-1B	
V-102		ELECTRON TUBE : Same as V-101	
XV-101	5935- 232-3 758	SOCKET, ELECTRON TUBE : 7 cont miniature; JAN type #SO10C; above chassis base mtg on saddle 1-1/8" lg × 0. 805" wd; two 0. 125" diam mtg holes on 0. 875" mtg/c; round ceramic body 0. 800" diam × 0. 968" h excluding term; beryllium copper, silver pl cont; accom metal shield, w/ctr shield 0. 095" ID; JAN spec JAN-S-27; - Collins Rad part/dwg #220 1068 00	
XV-102		SOCKET : Same as XV-101	
Z-101	1700- 019 788 250	TUNER, RADIO FREQUENCY : for RF amplr; c/o stator, rotor, contact, front plate, ball bearing and mtg hardware; silver pl brass stator and rotor plates, silver pl beryllium copper contact; range 200-400 mc; 2. 781" lg × 1. 968" wd × 1. 515" h o/a; mtd by three 0. 130" diam holes equally spaced on 0. 937" diam circle on front plate; Collins Rad part/dwg #505 3820 003	
Z-102		TUNER : Same as Z-101	
Z-103		TUNER : Same as Z-101	
Z-104	1700- ~~0 193 377 200~~ 0 193 768 50	SUPPRESSOR, PARASITIC : resistor and coil; 1-1/8" lg x 0.193" diam, less term; 12 right hand turns close wnd at 55 turns per inch of #26 soft copper wire, 22 ohm p/m 10 %, 1/2 w; cylindrical, silicone saturated varglass sleeving; term mtd; two axial wire lead term; resistor and choke soldered together; - Collins Rad part/dwg #505 0156 002	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
Z-105	1700- -0 193 377 200	SUPPRESSOR, PARASITIC : resistor and coil; 1-1/8" lg×0. 193" diam, less term; 14 right hand turns, close wnd at 55 turns per inch of #26 soft copper wire, 22 ohm p/m 10%, 1/2 w; cylindrical, silicone saturated varglass sleeving; term mtd; two axial wire lead term; resistor and choke soldered together; - Collins Rad part/dwg #505 0157 002	
201-299 series		OSCILLATOR, RADIO FREQUENCY : 26. 6667 mc to 38. 8889 mc; xtal controlled; power output approx 5 v across 100,000 ohm; 8. 156" lg × 6. 625" wd × 4-7/8" d less cable and cable connector; integral coils and selector sw; receives power from main rect unit of rec, 6. 3 v AC at 3 amp, plus 230 v DC at 10 ma; incl. 18 xtal and one tube; mts in main rec frame and secured by captive screws; thermostatically controlled oven for xtal heat, coil selection sw and xtal selection sw ganged together by gear train; p/o Army-Navy Receiver R-278B/GR; - Collins Rad part/dwg #505 0842 004	
A-201		PLATE, MOUNTING : for socket; chromate dipped aluminum; irregular shape; 1-1/8" lg × 15/16" wd × 0. 051" thk o/a; one 0. 120" diam mtg hole in center; - Collins Rad part/dwg #505 0861 002	
A-202		PLATE, MOUNTING : for main osc; SS mtg posts, idler post, bearing thimbles and porous bronze bearings mtd on chromate dipped aluminum plate; irregular shape; 8. 156" lg × 6. 625" wd × 1. 561" thk o/a; four #8-32 NC-2 × 9/32" lg tapped mtg posts; black silk screened letters and numerals 3/32" h; - Collins Rad part/dwg #505 0894 003; (incl O-206, O-207)	
A-203		PLATE, SWITCH : sw mtg; chromate dipped aluminum plate 3 silver pl beryllium copper cont each with 5 fingers bent to 5/32" radius; round plate; 3. 437" diam × 7/64" thk, less cont; three 0. 156" screen ed letters and numerals 3/32" h; cont and 2 eyelets riveted to plate, cont heat treated; - Collins Rad part/dwg #505 0893 003; (p/o E-215)	
A-204		BRACKET : mtg chassis; rectangular; chromate dipped aluminum; 3. 625" lg × 3. 0625" wd × 1. 750" h o/a; ten #4-40 NC-2 tapped inserts, six spaced around top edge, four spaced around bottom edge; black silk screened letters and numerals 3/32" h; - Collins Rad part/dwg #505 0880 002	
A-205		CHASSIS : main osc; chromate dipped aluminum; one ceramic bushing term with soldering lug; rectangular; 3-3/4" lg × 3/16" wd × 0. 6250" thk o/a; six 0. 147" diam mtg holes spaced asymmetrically along edge; black silk screened letters and numerals 3/32" h; - Collins Rad part/dwg #505 0882 002; (incl. E.-203)	
A-206		COVER : for oven; chromate dipped aluminum; round; 4-3/16" lg × 5. 000" diam less mtg tabs; 3 mtg tabs w/ one 0. 171" diam hole in each spaced 100 deg, 130 deg and 130 deg apart; black silk screened letters and numerals 3/32" h - Collins Rad part/dwg #505 0902 003	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
A-207		COVER : crystal; c/o 1 thermostatic switch, 1 bkt, 4 rivets; cover chromate dipped aluminum, bkt silver pl brass, rivets cad pl brass, asbestos ins; switch, SPST, 70°C to 75°C, operating temp, 30 v 5 amp, 125 v 5 amp, 250 v 2 amp, 125 v 4 amp, 250 v 1. 5 amp; round 3-3/16" lg × 3-1/2" diam o/a; three 0. 156" diam holes spaced on 2. 875" diam circle; - Collins Rad part/dwg #505 0904 003; (incl. S-202) (p/o HR-201)	
A-208		COVER, ELECTRICAL CONNECTOR : anodized aluminum cover with cad pl steel clamp and screws; rectangular; 1. 259" lg × 31/32" wd × 1-3/4" h o/a; 2 mtg flanges inside of cover, one on each side, tapped #4-40, 0. 375" diam cable opening; black silk screening « P-201 MAIN OSCILLATOR » 3/32" h on front of cover; incl two #6-32 NC-2 screws in cable clamp on top of cover; - Collins Rad part/dwg #505 0856 001	
C-201	3330- 056 200 699	CAPACITOR, FIXED, MICA DIELECTRIC : 500 mmf p/m 20 %; 500 vdcw; temp coef ltr E; 0. 463" diam × 3/8" d case brass, silver pl; 2 solder lug term, one axial and one radial; mtd by single tapped #3-48 NC-2 hole; oil impr w/ resin seal; - Collins Rad part/dwg #912 0717 00	
C-202	3330 PE- 960 608	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 100 mmf ± 5 % tol; temp coef 750 mmf/mf/°C; pos tol 120 mmf/mf/°C; style 1, Ref Dwg Group 1; ins body; 0. 550" lg 0. 315" diam; 2 term radial wire lead type; 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; ACEC part/dwg #ACEC 928 4059 00; substitute for Collins Rad part/dwg #928 4059 00	
C-203	3330 PE- 960 605	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 10. 0 mmf ± 1/2 mmf tol; temp coef 750 mmf/mf/°C; pos tol 120 mmf/mf/°C; style 1, Ref Dwg Group 1; ins body; 0. 435" lg 0. 200" diam; 2 term radial wire lead type; 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; ACEC part/dwg #ACEC 928 0413 00; substitute for Collins Rad part/dwg #928 0413 00	
C-204	3330- 055 475 600	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 1000 mmf plus 80 % minus 20 %; w/ High-K dielectric; 500 vdcw; 49/64" lg × 5/16" wd across flats; two solder lug term; bushing mtd 1/4"-28 NF-2 thd, 1/4" FMS; ins; feed-thru type ruggedized capacitor, fungi resistant; - Collins Rad part/dwg #913 1292 00	
C-205		CAPACITOR : Same as C-204	
C-206		CAPACITOR, FIXED, MICA DIELECTRIC : 300 vdcw; 10, 000 mmf ± 20 % tol; temp coef letter B; ins molded case; 53/64" lg, 53/64" wd, 11/32" thk 2 term axial wire lead type, 0. 040" diam tinned wire, 1-1/8" lg min; - Collins Rad part/dwg #935 2118 00; JAN spec JAN-C-5, type CM35B103M	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
C-207	3330 PE- 960 612	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 39 mmf ± 5 % tol; temp coef 0; pos tol 60 mmf/mf/°C; style II, Ref Dwg Group I; ins body; 0. 550" lg 0. 315" diam; 2 term radial wire lead type; 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; ACEC part/dwg #ACEC 928 4352 00; substitute for Collins Rad part/dwg #928 4352 00	
~~E-210~~ E-201	5975 PE- 930 551	CAP, ELECTRICAL : tube : CRS, cad pl; cylindrical w/ 19/32" diam hole in top; bayonet mtg; 0. 950" ID × 1-15/16" lg inside; 2 mtg bosses at 180 deg, mtg/c 11/64" from bottom; w/ SS spring inside; - Collins Rad part/dwg #141 0103 00	
E-202		TERMINAL : Same as E-103	
E-203	8880- 749 000-1 175	TERMINAL, LUG : hook type; nickel pl lug, grade L-5 or better ceramic bushing; 3/32" diam space for wire; 5/8" lg × 13/32" diam o/a; solder connects to wire; - Collins Rad part/dwg #190 1104 00; (p/o A-205)	
E-204	3320- 331 265 932	INSULATOR, STANDOFF : cylindrical pillar; grade L-5 ceramic, glazed white, except ends; 5/8" lg; 1/4" diam, tapped #4-40 NC-2 × 3/16" d at each end; - Collins Rad part/dwg #190 1105 00	
E-205		TERMINAL, STUD : plug in for xtal socket; silver pl brass; 41/64" lg × 1/4" diam o/a; #4-40 NC-2 thd × 0. 140" lg for mtg; - Collins Rad part/dwg #505 0870 002	
E-206		TERMINAL : Same as E-205	
E-207		INSULATOR, DISK : round; laminated thermosetting plastic; 1-1/4" lg; 1-5/8" wd × 7/16" thk o/a, two 0, 140" diam holes for mtg; 2 term lugs riveted to disk; - Collins Rad part/dwg #505 0871 002; (p/o HR-201)	
E-208		INSULATOR, DISK : round; thermal insulation fiber glass type X-AA-PF; 1/2" thk × 4-13/-6" OD, 5/8" diam hole in center for shaft mtg; - Collins Rad part/dwg #505 0878 002	
E-209		INSULATOR, flexible sleeve; yellow; fiber glass; 2. 860" ID × 1/2" thk; - Collins Rad part/dwg #505 0876 002	
E-210		INSULATOR, DISK : round; fiber glass; 1/2" thk; 4-13/16" OD × 2" ID, three 7/16" diam holes on 2-7/8" diam circle for mtg; - Collins Rad part/dwg #505 0877 002	
E-211		INSULATION, flexible sleeve; fiber glass; 3. 860" ID × 1/2" thk; - Collins Rad part/dwg #505 0879 002	
E-212		INSULATOR : Same as E-204	
E-213	8880- 821 500-1 215	TERMINAL, STUD : melamine, terminal brass, hot tin dipped, base brass, cad pl; 0. 632" lg o/a, 3/8" lg less term, 1/4" across flats; #4-40 NC-2 tapped 5/32" d one end, two 0. 212" lg × 0. 052" wd slotted solder lug other end; - Collins Rad part/dwg #306 0234 00	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
E-214		TERMINAL : Same as E-213	
E-215		SWITCH ASSEMBLY : for main osc; incl sw Collins Rad part/dwg #269 1338 00 qty 2 and a xtal holder Collins Rad part/dwg #292 0074 00; 1 pole 18 position sw, type HC-6/U xtal holder for 18 xtal; round; 3. 421" diam × 2. 314" d o/a; ctr hole 0. 250" lg × 0. 186" wd for shaft mtg; - Collins Rad part/dwg #505 0901 002; (incl A-203, 2 H-207, 3 H-209, 2 H-210, 5 H-211, 8 H-216, 3 H-219, 6 H-221, 3 H-222, 4 H-223, 3 H-224, H-225, 2 S-201, XY-201 thru XY-218)	
E-216	~~5840 PE-910 502~~	INSULATOR, STANDOFF : cyl glazed white ceramic body; brass, hot tin dipped base, cad pl. hex; 0. 570" lg a/a, 0. 435" less term, 0. 175" across flats; #4-40 NC-2 thd × 1/4" for mtg one end, 0. 135" lg × 0. 093" diam slotted solder lug other end; - Collins Rad part/dwg #306 0213 00	
E-217	5840 PE 910 502	CONTACT, ELECTRICAL : p/o plate, switch main oscillator; contact includes conducting points; 5 points, silver plated; 1/8" w; beryllium copper, silver plated, heat treaded 1-1/8" lg, 0. 669" wd, 5/32" thk; points lapped; provided w/2 mtg holes, 0. 128" diam, 3/4" c to c; - Collins Rad part/dwg #505 0898 003	
H-201		SCREW : Same as H-101 (4 each used)	
H-202		WASHER : Same as H-103 (5 each used)	
H-203		RING, RETAINER : for use on 0. 250" diam shaft; beryllium copper, plain; 0. 410" OD, 0. 225" ID, 0. 025" thk; one bolt employed, nit incl; 0. 41" min clearance diam when ring is spread over shaft; - Colins Rad part/dwg #340 0038 00; (5 each used)	
H-204		NUT, PLAIN, HEXAGON : steel, cad pl; 1/4" -28 NF-2; 1/8" thk; 3/8" wd across flats; single chamfer; - Collins Rad part/dwg #313 0125 00; (2 each used)	
H-205		WASHER, FLAT :brass, nickel pl; round 0. 125" ID, 0. 312" OD, 0. 028" thk; - Collins Rad part/dwg #310 0054 00; (2 each used)	
H-206		SCREW : Same as H-116 (5 each used) (1 p/o HR-201)	
H-207		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; brass, nickel pl; #4-40 NC-2; 1-1/4" lg; threaded to head; head 0. 227" diam × 0. 083" thk; - Collins Rad part/dwg #343 0295 00; (4 each used) (p/o E-215)	
H-208		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; brass, nickel pl; #6-32 NC-2; 1/4" lg; threaded to head; head 0. 270" diam × 0. 097" thk; - Collins Rad part/dwg #343 0328 00; (5 each used)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-209		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished, cold headed; brass, nickel pl; #6-32 NC-2; 3/8" lg; threaded to head; head 0. 273" diam × 0. 099" thk; - Collins Rad part/dwg #343 0330 00; (6 each used) (3 p/o E-215)	
H-210		NUT : Same as H-114 (10 each used) (3 p/o HR-201) (2 p/o E-215)	
H-211		WASHER : Same as H-111 (3 p/o HR-201) (5 p/o E-215) (30 each used)	
H-212		WASHER, LOCK : cad pl phosphor bronze; round, 5/16" OD, 0. 018" thk; shakeproof type, tw ext teeth; for #6 screw; - Collins Rad part/dwg #373 7020 00; (14 each used)	
H-213		CLAMP : coaxial cable; aluminum; chromate dipped; 2 bolts employed, not incl; 1. 625" gl × 7/8" wd, 0. 296" h o/a, two 0. 140" diam mtg holes 1. 125" c to c; clamp designed to hold 0. 500" wd × 0. 245" h material; - Collins Rad part/dwg #505 0866 002	
H-214		POST, SPACING : spaces socket mtg plate from front plate; anodized aluminum; cylindrical; 0. 812" lg × 5/16" diam o/a; 0. 120" diam hole for mtg; hub at one end 0. 187" diam × 0. 062" lg; - Collins Rad part/dwg #505 0869 002; (2 each used)	
H-215		SCREW : Same as H-122 (5 each used)	
H-216		WASHER, FLAT : hard rubber; round, 0. 120" ID, 0. 250" OD, 1/64" thk; - Collins Rad part/dwg #200 0269 00; (16 each used) (p/o E-215)	
H-217		SCREW : Same as H-107 (2 each used)	
H-218		NUT : Same as H-109	
H-219		POST, SPACING : supports socket crystal; cold drawn brass, cad pl; 1. 250" lg × 3/16" hex; tapped #4-40 NC-2 for 1/2" ea end for mtg; - Collins Rad part/dwg #500 6225 001; (3 each used) (p/o E-215)	
H-220		WASHER : Same as H-106 (2 each used)	
H-221		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished, cold headed; brass, nickel pl; #4-40 NC-2; 3/8" lg; thrended to head; head 0. 227" diam × 0. 083" thk; - Collins Rad part/dwg #343 0287 00; (8 each used) (2 p/o HR-201) (6 p/o E-215)	
H-222		POST, SPACING : spaces sw mtg plate from front plate; laminated plastic type LTS-E-3; cylindrical; 3/8" OD × 5/8" lg; #6-32 NC-2 tapped hole for mtg; varnish coated moisture resistant; - Collins Rad part/dwg #505 0885 002; (6 each used) (3 p/o E-215)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-223		POST, SPACING : spaces plate from sw; anodized aluminum; cylindrical; 0. 312" lg, 3/16" OD, 0. 120" ID; 0. 120" diam hole through ctr for mtg; - Collins Rad part/dwg #505 2723 001; (4 each used) (p/o E-215)	
H-224		WASHER, LOCK : everdur, plain finish; round, 0. 115" ID, 0. 177" OD, 1/32" thk; #4 split lock; - Collins Rad part/dwg #310 0076 00; (3 each used) (p/o E-215)	
H-225		TERMINAL : Same as H-113 (4 each used) (1 p/o E-215)	
H-226		SCREW : Same as H-110 (3 each used)	
H-227		NUT, PLAIN, HEXAGON : nickel plated brass; #12-28 NF-2; 0. 114" thk; 0. 3125" wd across flats; - Collins Rad part/dwg #334 0256 00; (17 each used)	
H-228		SCREW : Same as H-117 (10 each used)	
H-229		SCREW, MACHINE : Phillips drive; recessed pan head, unifinished, cold headed; brass, nickel pl; #3-48 NC-2; 3/16" lg; threaded to head; - Collins Rad part/dwg #343 0382 00	
H-230		WASHER, LOCK : cad pl steel; round, 7/32" OD, 0. 012" thk; shakeproof type, tw int teeth; for #3 screw; - Collins Rad part/dwg #373 1020 00	
H-231		WASHER, LOCK : cad pl steel; round, 13/32" OD, 0. 021" thk, ID for #12 screw; tw int teeth; - Collins Rad part/dwg #373 1070 00; (18 each used)	
H-232		POST, SPACING : cad pl brass; cylindrical hex; 3/16" across flats, 1. 000" lg; tapped #4-40 NC-2 entire lg; - Collins Rad part/dwg #500 6224 001; (2 each used)	
H-233		PIN, LOCATION : osc sw; silver pl brass; cylindrical hex; 1 1/4" lg o/a, one end 0. 153" diam × 0. 312" lg, of which 1/16" comes to a point, 3/16" wd across flats × 0.562" lg, 0. 109" diam × 0. 376" lg; #4-40 NC-2 thd for 0. 283" lg for mtg; - Collins Rad part/dwg #505 0873 002; (2 each used)	
H-234		CLAMP : cable; aluminum, plain finish; 1 bolt employed w/ 0. 203" diam hole and 0. 171" diam hole; 11/16" wd w/ins and 5/8" wd w/o ins; holds 5/16" mtl; ins flame resistant extruded syn channel, 1/32" thk; - Collins Rad part/dwg 139 0077 00	
H-235		NUT, PLAIN, HEXAGON : brass, nickel pl; #6-32 NC-2; 0. 114" thk; 5/16" wd across flats; double chamfered; - Collins Rad part/dwg #313 0053 00	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-236		SCREW, MACHINE : Phillips drive; Bind H, unfinished brass, nickel pl; #6-32 NC-2; 5/16" lg; threaded to head; head 0. 270" diam × 0.097" thk; - Collins Rad part/dwg #343 0329 00; (6 each used)	
H-237		CLAMP : for cable; cold rolled steel; cad pl; one 0. 156" diam hole for mtg; 47/64" lg × 3/8" wd × 1/4" h o/a; to hold 1/4" diam cable; - Collins Rad part/dwg #502 4800 001	
H-238		SCREW : Same as H-121 (2 each used)	
H-239		WASHER : Same as H-105 (4 each used)	
H-240		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; steel, cad pl; #2-56 NC-2; 3/16"; threaded to head; - Collins Rad part/dwg #343 0454 00; (4 each used)	
H-241		NUT, PLAIN, HEXAGON : cad pl steel #2-56; 1/16" thk; 3/16" across flats; - Collins Rad part/dwg #313 0013 00; (4 each used)	
H-242		WASHER, LOCK : phosphor bronze, cad pl; round, 0. 267" ID, 0. 478" OD, 0. 025" thk; shakeproof type, tw int teeth; - Collins Rad part/dwg #373 3050 00; (2 each used)	
H-243		WASHER, FLAT, SS type #302; round, 0. 312" OD, 0. 027" thk, 0. 125" ID; - Collins Rad part/dwg # 310 0045 00; (2 each used)	
HR-201		HEATING ELEMENT, coil type; 115 v, one sect 30 w, one sect 70 w; double sect; aluminum cyl form; 4-21/64" diam × 2-7/8" d o/a; 2 kovar type term; 3 holes equally spaced on a 2. 875" diam circle; xtal oven heater; incl 2 thermostatic sw and 10, 000 mmf capacitor; - Collins Rad part/dwg #505 0908 004; (incl A-207, C-206, E-207, 1 H-206, 3 H-210, 3 H-211, 2 H-221, HR-202, O-229, S-203)	
HR-202		p/o HR-201 Next Higher Assembly	
J-201		Not used	
J-202	8850-867 310	SOCKET, CRYSTAL : for HC-6 type crystal; steatite body, beryllium copper silver plated cont; oval body; 7/8" lg × 3/8" wd × 11/16" h o/a; above chassis mtg, one 1/8" diam mtg hole on center lines; — Collins Rad part/dwg #292 0059 00	
L-201	3340-060 720 350	COIL, RADIO FREQUENCY : choke; single wnd, single layer wnd; unshielded; inductance 2. 2 uh p/m 20 % E copper wire; 7/16" lg × 3/16" diam less term; molded phenolic form and core form 0. 156" diam × 1/2" lg; 1-1/2" lg pigtails; Durez #9841 dip coating and fp; - Collins Rad part/dwg #240 0064 00	
L-202 through L-221		Not Used	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
L-222	3340- 060 701 930	COIL, RADIO FREQUENCY : tuning, osc; single wnd, single layer wnd, unshielded; 10 right hand turns of #26 E wire, close wnd; 1. 343" lg × 11/32" diam o/a, less term; ceramic form, powdered iron core; form 0. 260" diam × 5/8" lg with 11/32" diam shoulder; adj iron core; screwdriver adj, #4-40 NC-2 threaded tuning slug 0. 573" lg; #12-28 NF-2 threaded bushing × 0. 245" lg, incl mtg nut, locking spring and lock washer; 2 silver pl brass ring-term on coil form; - Collins Rad part/dwg #505 0890 002	
L-223	3340- 060 701 950	COIL, RADIO FREQUENCY : tuning, osc; single wnd, single layer wnd; unshielded; 9 right hand turns of #26 E wire, close wnd; 1. 343" lg × 11/32" diam less term; ceramic form, powdered iron core; for 0. 260" diam × 5/8" lg with 11/32" diam shoulder; adj iron core; screwdriver adj, #4-40 NC-2 threaded tuning slug 0. 573" lg; #12-28 NF-2 threaded bushing × 0. 245" lg, incl mtg nut, locking spring and lock washer; 2 silver pl brass ring term on coil form; - Collins Rad part/dwg #505 0888 002	
L-224	3340- 060 701 960	COIL, RADIO FREQUENCY : tuning, osc; single wnd, single layer wnd unshielded; 8 right hand turns of #26 E wire, close wnd; 1. 343" lg × 11/32" diam o/a, less term; ceramic form, powdered iron core; form 0. 260" diam × 5/8" lg with 11/32" diam shoulder; adj iron core; screwdriver adj, #4-40 NC-2 threaded tuning slug 0. 573" lg; #12-28 NF-2 threaded bushing × 0. 245" lg, incl mtg nut, locking spring and lock washer; 2 silver pl brass ring term on coil form; - Collins Rad part/dwg #505 0887 002	
L-225		COIL : Same as L-224	
L-226	3340- 060 701 970	COIL, RADIO FREQUENCY : tuning, osc; single wnd, single layer wnd; unshielded; 7 right hand turns of #26 E wire, close wnd; 1. 343" lg × 11/32" diam o/a, less term; ceramic form, powdered iron core; form 0. 260" diam × 5/8" lg with 11/32" diam shoulder; adj iron core; screwdriver adj, #4-40 NC-2 threaded tuning slug 0. 473" lg; #12-28 NF-2 threaded bushing × 0. 245" lg, incl mtg nut, locking spring and lock washer; 2 silver pl brass ring terminals on coil form; - Collins Rad part/dwg #505 0886 002	
L-227		COIL : Same as L-226	
L-228		COIL : Same as L-222	
L-229		COIL : Same as L-222	
L-230		COIL : Same as L-222	
L-231		COIL : Same as L-222	
L-232		COIL : Same as L-223	
L-233		COIL : Same as L-223	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
L-234		COIL : Same as L-224	
L-235		COIL : Same as L-224	
L-236		COIL : Same as L-224	
L-237		COIL : Same as L-226	
L-238		COIL : Same as L-226	
L-239		COIL : Same as L-226	
N-201		PLATE, INSTRUCTION : Main oscillator schematic; aluminum; rectangular; 2-9/16" lg × 1-11/16" wd × 0. 032" thk o/a; four 0. 106" diam mtg holes on 2. 313" × 1. 438" mtg/c; reverse etched w/ black background, aluminum lines and character - Collins Rad part/dwg #505 2390 003	
O-201		GEAR, SPUR : anodized aluminum; drives xtal sw; straight teeth; 72 teeht; 48 pitch, 1. 5000" PD; 0. 5625" OD, 0. 081" gear face wd; straight face; hub 0. 484" thk o/a, 0. 625" diam × 0. 046" lg, 0. 4386" diam × 0. 125" lg, 0. 312" diam × 0. 313" lg, four 0. 032" wd × 0. 298" d slots equally spaced; 0. 2500" ID ofr shaft mtg; - Collins Rad part/dwg #505 0892 002	
O-202		GEAR, SPUR : anodized aluminum; idler; straight teeth; 114 teeth; 48 pitch, 2. 375" PD; 0. 45313" OD, 0. 102" gear face wd; straight face, hub 0. 344" thk × 0. 5000" diam o/a; 0. 2500" ID for shaft mtg; - Collins Rad part/dwg #505 0874 002	
O-203		GEAR, SPUR : anodized aluminum; drives coils switch; straight teeth, 72 teeth; 48 pitch, 1. 5000" PD; 0. 5625"; OD, 0. 081" gear face wd; straight face; hub 0. 421" thk o/a, 0. 625" diam × 0. 046" lg, 0. 4386" diam × 0. 125" lg, 0. 312" diam × 0. 250" lg, four 0. 032" wd × 0. 235" d slots equally spaced 0. 2500" ID for shaft mtg; - Collins Rad part/dwg #505 0918 002	
O-204		HUB : Same as O-112	
O-205		CLAMP : Same as H-108	
O-206		BEARING, SLEEVE : support shaft operating crystal selecting sw; bronze, oil impr; 5/8" lg × 3/8" OD × 1/4" ID; - Collins Rad part/dwg #309 5010 00; (p/o A-202)	
O-207		BEARING : Same as O-206; (p/o A-202)	
O-208		SHAFT : xtal oven sw; type #303 steel; cylindrical; 0. 2495" OD × 2-3/8" lg o/a, flatted 0. 184" wd for 3/4" lg; passes through front plate, held in place by retaining rings and thrust washers; corrosion resistant, two 0. 028" wd × 0. 230" diam grooves 0. 506" and 1. 238" from one end, 0. 032" wd × 0. 046" d slot on each end; - Collins Rad part/dwg #505 0867 002	

Reference Symbol No.	**Stock No.**	**Description**	**Source Code**
		RADIO RECEIVER R-278B/GR	
O-209		SHAFT : main osc sw; type #303 steel; cylindrical; 1-15/32" lg × 0. 2495" OD, flatted 0. 184" wd for 1/4" lg; passes through front plate, held in place by retaining rings and thrust washers; corrosion resistant, two 0. 028" wd × 0. 230" diam grooves 0. 475" and 1. 207" from one end, 0. 032" wd × 0. 046" d slot on each end; - Collins Rad part/dwg #505 0868 002	
O-210		COLLAR, SHAFT : xtal oven sw; XXR laminated thermosetting plastic; cylindrical; 5/8" max OD × 0. 578" lg, 0. 546" min OD × 0. 1095" lg; 0. 453" ID for shaft mtg; moisture resistant; - Collins Rad part/dwg #505 0864 002	
O-211 thru O-228		SPRING, HELICAL TENSION : locks tuning stud; 0. 023" diam SS wire; 0. 226" lg × 0. 148" wd × 0. 023" thk o/a; square cut ends; «C» shape; - Collins Rad part/dwg #340 0264 00	
O-229		RETAINER, CRYSTAL HOLDER : to hold 18 crystals in socket; silver pl beryllium copper; round; 2-3/4" diam × 1/2" lg; three 0. 128" diam holes equally spaced on 1. 250" diam circle; - Collins Rad part/dwg #505 0897 003; (p/o HR-201)	
P-201		CONNECTOR : Same as P-101	
R-201	3350- 131 000-5 131	RESISTOR, FIXED, COMPOSITION : body style #3, Ref dwg group 2; 10,000 ohms p/m 10 % tol; 1W power dissipation; temp characteristic letter F; 0. 750" lg × 0. 280" diam max; ins; RTH and RSW; 2 term, axial wire lead type; H F appl; Collins Rad part/dwg #745 3128 00; JAN spec JAN-R-11, type RC30BF103K; for general purpose use.	
R-202	5905 PE- 971 707	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2: 330 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term; axial wire lead type; HF appl; - Collins Rad part/dwg #745 1065 00; JAN spec JAN-R-11, type RC20BF331K; for general purpose use.	
R-203		RESISTOR : Same as R-202	
R-204		RESISTOR : Same as R-104	
R-205	5905 PE- 971 703	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 22 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg#745 1016 00; JAN spec JAN-R-11, type RC20BF220K; for general purpose use.	
S-201	3360- 073 360 200	SWITCH SECTION, ROTARY : for 18 position rotary sw; glass-bonded mica stator, phenolic rotors, spring silver alloy cont, coin silver alloy rotor blades; 1 pole, 18 position; flat, round; 2-5/16" diam × 1/8" thk o/a; 2 mtg holes to pass #5 screw 2" c to c, ctr hole 0. 186" × 0. 250" for shaft mtg; shorting type blades, front and rear ones electrically connected and soldered; - Collins Rad part/dwg #269 1338 00; (2 each used) (p/o E-215)	

SCHEDULE OF STORES TO BE SUPPLIED ON CONTRACT

S.No.	Particular of stores	Accounting Unit
1.	Radio Set AN/GRC-27 UHF Transceiver comprising :-	Each
	1-1. Radio Receiver R-278 B/GR	
	1-2. Radio Transmitter T-217 A/GR	
	1-3. Modulator-Power Supply MD-129 A/GR	
	1-4. Distribution Panel J-390/GR	
	1-5. Desk Shelf MX-1058/U	
	1-6. Electrical Conduit MX-1174/U	
	1-7. Rack MT-686/GR	
	1-8. Antenna AS-505/GR	
	1-9. Cable CX-1564/U	
	1-10. Power Cable CX-1541/U	
	1-11. Cable CX-1540/U	
	1-12. HV Cable CG-693/U	
	1-13. Cable CX-1539/U	
	1-14. RF Cable CG-707/U	
	1-15. RG-17/U Coaxial cable (Bulk)	
	1-16. RF Connectors UG-495 A/U	
	1-17. AB-282 Mast and Accessories.	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
S-202		SWITCH, THERMOSTATIC : one pole, single throw; operating temp, 70°C opening 55°C closing; 6 v 10 amp, 12 v 10 amp, 30 v 10 amp, 50 v 5 amp, 125 v 1 amp, 125 v 8 amp, 250 v 4 amp, 125 v 6. 5 amp, 250 v 3. 2 amp; ceramic case; 5/8" diam × 7/32" d body; 2 lug term; term mtg; - Collins Rad part/dwg #292 0077 00; (p/o HR-201)	
S-203		SWITCH, THERMOSTATIC : one pole, single throw; operating temp, 75°C opening 70°C closing; 30 v 5 amp, 125 v 5 amp, 250 v 2 amp, 125 v 4 amp, 250 v 1. 5 amp; ceramic and metal case; 23/32" lg × 0. 300" wd × 5/16" d body; term, 2 metal bkt w/ four tap #1-72 NF-2 holes; two 0. 104" diam mtg holes on 5/8" mtg; - Collins Rad part/dwg #292 0075 00; (p/o A-207)	
S-204		SWITCH : Same as S-201	
S-205		SWITCH, THERMAL : w/in line wire lead contacts, glass enclosed; holds 120°C at 0. 050 amp; max opening temp 140°C at 0. 050 amp; 1-1/8" lg × 1/4" diam body; two leads 2-5/8" lg; - Collins Rad part/dwg #267 0050 00; (p/o HR-201)	
V-201	5960- 166-7 662	ELECTRON TUBE : high-mu twin triode, grounded-grid type ; glass envelope, miniature, 9 terminations, pin type; JAN type 12AT7; - Collins Rad part/dwg #254 0809 00; MIL spec MIL-E-1B	
XV-201	8850- 896 590	SOCKET, ELECTRON TUBE : 9 cont miniature; one piece saddle mtg; fl mtg w/two 0. 125" diam mtg holes spaced on 1. 125" mtg/c; cylindrical ceramic steatite body, 47/64" max diam × 1/4" h excluding term; beryllium copper, silver pl cont; w/ metal shield, ctr shield 0. 102" ID - Collins Rad part/dwg #220 1086 00	
XY-201 through XY-218	5935 PE- 094 235	SOCKET, CRYSTAL : accom 18 xtal in type HC-6/U holders; phenolic board, phosphor bronze, silver pl cont; round; 3.421" diam × 0. 343" thk less term; three 0. 128" diam mtg holes ctb to 0. 234" diam × 0. 125" d, equally spaced on 3. 000" diam circle; engraved numerals 1 thru 18; fungi resistant; - Collins Rad part/dwg #292 0074 00; (p/o E-215)	
Y-201	2100 PE- 916 129	CRYSTAL UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 38.88889 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0.750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9147 00; MIL spec MIL-C-3098	
Y-202	2100 PE- 916 128	CRYSTAL UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 37. 77778 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0.750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9146 00; MIL spec MIL-C-3098	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
Y-203	2100 PE-916 119	CRYSTAL UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 36.66667 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0.750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9137 00; MIL spec MIL-C-3098	
Y-204	2100 PE-916 127	CRYSTAL UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 35.55555 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0.750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9145 00; MIL spec MIL-C-3098	
Y-205	2100 PE-916 126	CRYSTAL UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 34.44444 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0.750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9144 00; MIL spec MIL-C-3098	
Y-206	2100 PE-916 117	CRYSTAL UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 33.33333 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0.750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9135 00; MIL spec MIL-C-3098	
Y-207	2100 PE-916 125	CRYSTAL, UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 32.22222 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9143 00; MIL spec MIL-C-3098	
Y-208	2100 PE-916 124	CRYSTAL, UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 31.11111 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9142 00; MIL spec MIL-C-3098	
Y-209	2100 PE-916 115	CRYSTAL, UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 30.00000 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9133 00; MIL spec MIL-C-3098	
Y-210	2100 PE-916 123	CRYSTAL, UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 28.88889 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9141 00; MIL spec MIL-C-3098	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
Y-211	2100 PE- 916 122	CRYSTAL, UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 27.77778 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9140 00; MIL spec MIL-C-3098	
Y-212	2100 PE- 916 121	CRYSTAL, UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 26.66667 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9139 00; MIL spec MIL-C-3098	
Y-213	2100 PE- 916 120	CRYSTAL, UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 38.33333 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9138 00; MIL spec MIL-C-3098	
Y-214		CRYSTAL UNIT : Same as Y-203	
Y-215	2100 PE- 916 118	CRYSTAL, UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 35.00000 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9136 00; MIL spec MIL-C-3098	
Y-216		CRYSTAL UNIT : Same as Y-206	
Y-217	2100 PE- 916 116	CRYSTAL, UNIT, QUARTZ : CR-32/U single xtal plate, holder HC-6/U; 31.66667 mc (third overtone); temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c; solid pins 0. 050" diam × 0. 207" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h less term; no air gap; pl wire mtg; - Collins Rad part/dwg #291 9134 00; MIL spec MIL-C-3098	
Y-218		CRYSTAL UNIT : Same as Y-209	
301-399 series		AMPLIFIER, RADIO FREQUENCY : input freq range 26.6667 mc to 38. 8889 mc, output freq range 180. 0 mc to 350. 0 mc; output approx 2 v across 5000 ohms; 8-5/32" lg × 7-11/16" wd × 5" d less cable; fil 6. 3 v AC at 1. 5 amp, plate 230 v DC at 20 ma; incl 5 tubes; mts in main rec frame and secured by captive screws; tunes in 10 mc increments, has 5 RF tuners ganged by gear train; p/o Army-Novy Receiver R-278B/GR; - Collins Rad part/dwg #505 0702 005	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
A-301		PLATE, GEAR : for injection amplr; chromate dipped aluminum; angle shape; 8-5/32" lg × 3-5/16" wd × 1. 124" d o/a; 4 mtg posts spaced in 2 rows 2. 671" apart, top two 5. 437" c to c, bottom two 3.624" c to c; black silk screening 3/32" h numerals and letters on front and back of plate; - Collins Rad part/dwg #505 0688 003	
A-302		CHASSIS : for injection amplr; 4 brass shields silver soldered to brass chassis; 8. 093" lg × 2. 421" wd × 2. 633" h o/a; 10 brass inserts tapped #4-40 NC-2 riveted to chassis; black silk screening 3/32" h letters and numerals on chassis; - ACEC part/dwg #ACEC 505 0673 002, substitute for Collins Rad part/dwg #505 0673 002	
A-303		COVER : rear of injection amplr; silver pl brass; rectangular; 8. 094" lg × 9/32" wd × 2. 438" h o/a; four 3/8" diam mtg holes in one row; - Collins Rad part/dwg #505 0684 003	
A-304		BRACKET : supports end, multiplier chassis; angle shape; silver pl brass; 2. 375" lg × 2. 484" wd × 0. 4925" h o/a; mts by two 0. 140" diam holes 1.625" c to c; 6 brass inserts tapped #4-40 riveted to bkt; - Collins Rad part/dwg #505 0676 002	
A-305		COVER : left side of injection multiplier; silver pl brass; rectangular; 5-5/64" lg x 2-3/8" wd, 3/16" thk o/a; four 0. 147" diam mtg holes spaced on 1. 984" × 1. 219" mtg/c; - Collins Rad part/dwg #505 2726 003	
A-306		COVER : bottom, injection amplr; silver pl brass; rectangular; 5. 484" lg × 2. 375" wd × 0. 758" h o/a; eight 0. 140" diam mtg holes spaced in 2 rows on bottom of cover; black silk screening 3/32" h letters and numerals; 1 silver pl brass insert tapped #4-40 riveted to cover; - Collins Rad part/dwg #505 0675 002	
A-307		COVER : right side, injection multiplier chassis; silver pl brass; rectangular; 3. 546" lg × 2-3/8" wd × 0. 078" thk o/a; six 0. 147" diam mtg holes asymmetrically spaced around cover; black silk screening 3/32" h letters and numerals; - Collins Rad part/dwg #505 0681 003	
A-308		CHASSIS : injection multiplier; brass shield silver soldered to silver pl brass chassis; 3. 804" lg × 2. 484" wd × 2. 415" h o/a; 4 brass inserts tapped # 4-40 NC-2 riveted to chassis; black silk screening 3/32" h letters and numerals; - Collins Rad part/dwg #505 0674 002	
A-309		COVER : part of left side cover; silver pl beryllium copper spring riveted to silver pl brass cover; rectangular; 2-3/8" lg × 15/16" wd × 0. 1328" thk o/a; four 0. 147" diam mtg holes spaced on 0. 562" × 1-7/16" mtg/c; - Collins Rad part/dwg #505 1855 002	
A-310		PLATE : Same as A-108	
C-301	3330 PE- 960 609	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 15 mmf ± 5 % tol; temp coef 0; pos tol 60 mmf/mf/°C; style 1, Ref Dwg Group 1; ins body; 0. 550" lg, 0. 315" diam; 2 term radial wire lead type; 0.032" or 0.025"; diam tinned wire, 1-1/4" lg min: ACEC part/dwg #ACEC 928 4180 00; substitute for Collins Rad part/dwg #928 4180 00	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
C-302		CAPACITOR : Same as C-105	
C-303		CAPACITOR : Same as C-105	
C-304		CAPACITOR : Same as C-105	
C-305		CAPACITOR : Same as C-201	
C-306		CAPACITOR : Same as C-105	
C-307	3330- 313 430 303	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 47 mmf ± 5 %; temp coef 0, pos tol 60 mmf/mf/°C; styl 1, Ref Dwg Group 1; unins body; 0. 550" lg × 0. 315" diam; 2 term radial wire lead type 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; - Collins Rad part/dwg #916 4362 00; JAN spec JAN-C-20A, type CC30CH470J	
C-308		CAPACITOR : Same as C-101	
C-309		CAPACITOR : Same as C-105	
C-310		CAPACITOR : Same as C-105	
C-311		CAPACITOR : Same as C-105	
C-312		CAPACITOR : Same as C-105	
C-313		CAPACITOR : Same as C-103	
C-314		CAPACITOR : Same as C-107	
C-315		CAPACITOR : Same as C-103	
C-316		CAPACITOR : Same as C-105	
C-317		CAPACITOR : Same as C-107	
C-318		CAPACITOR : Same as C-105	
C-319		CAPACITOR : Same as C-103	
C-320		CAPACITOR : Same as C-105	
C-321		CAPACITOR : Same as C-105	
C-322		CAPACITOR : Same as C-107	
C-323		CAPACITOR : Same as C-103	
C-324		CAPACITOR : Same as C-105	
C-325		CAPACITOR : Same as C-105	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
C-326		CAPACITOR : Same as C-107	
C-327		CAPACITOR : Same as C-103	
E-301	5975 PE-930 554	CAP, ELECTRICAL : tube : JAN type #SOS3; steel, cad pl; round, open top; bayonet mtg; 0. 810" ID x 1-3/8" lg inside; w/inside spring; JAN spec JAN-S-28; - Collins Rad part/dwg #141 0111 00	
E-302		CAP : Same as E-301	
E-303		CAP : Same as E-101	
E-304		CAP : Same as E-101	
E-305		CAP : Same as E-101	
E-306		TERMINAL : Same as E-103	
E-307		TERMINAL : Same as E-103	
E-308		TERMINAL : Same as E-103	
E-309		TERMINAL : Same as E-103	
E-310		Not Used	
E-311		CONTACT : Same as E-110	
E-312	5340 PE-291 366	SPRING, HELICAL EXTENSION : for hold down low side cover of frequency multiplier amplifier; beryllium copper, silver plated, heat treated; « S » shape spring side, flat rectangular on mtg side; 1" lg, 19/32" wd, 0. 092" thk; curved contact, 1/16" radius; provided w/3 mtg holes, 0. 061" dia, 0. 375" c to c; - Collins Rad part/dwg #505 1853 002	
H-301		SCREW : Same as H-101 (4 each used)	
H-302		WASHER : Same as H-103 (5 each used)	
H-303		RING : Same as H-104 (5 each used)	
H-304		WASHER : Same as H-102 (5 each used)	
H-305		WASHER : Same as H-106 (4 each used)	
H-306		SCREW : Same as H-107 (5 each used)	
H-307		NUT : Same as H-109 (4 each used)	
H-308		SCREW : Same as H-110 (23 each used)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-309		SCREW : Same as H-221 (11 each used)	
H-310		WASHER : Same as H-111 (88 each used)	
H-311		POST, SPACING : spaces RF step tuner from gear plate; chromate dipped; hex cylindrical; 1/4" across flats × 1.500" lg; tapped #4-40 NC-2, 3/8" full thd min and csk 60 deg to 9/64" d max, each end; - Collins Rad part/dwg #505 0670 001; (3 each used)	
H-312		WASHER : Same as H-216 (6 each used)	
H-313		SCREW : Same as H-116 (11 each used)	
H-314		NUT : Same as H-114 (17 each used)	
H-315		TERMINAL : Same as H-113 (4 each used)	
H-316		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished, cold headed; nickel pl brass; #3-48 NC-2; 5/32" lg; threaded to head; 0. 193" diam × 0. 071" thk - Collins Rad part/dwg #343 0381 00	
H-317		WASHER : Same as H-230	
H-318		CLAMP : Same as H-112	
H-319		SCREW : Same as H-122 (2 each used)	
H-320		SCREW : Same as H-228 (44 each usd)	
H-321		WASHER : Same as H-205	
H-322		WASHER : Same as H-105 (4 each used)	
L-301		COIL : Same as L-102	
L-302		COIL : Same as L-102	
L-303		COIL : Same as L-102	
N-301		PLATE, INSTRUCTION : freq mult ampl schematic, R-278B/GR; aluminum; rectangular; 4-11/32" lg × 1-29/32" wd × 0. 031" thk o/a; six 0. 106" diam holes spaced on 2. 125" × 1. 656" and 1. 968" × 1. 656" mtg/c; black background w/low gloss anodized aluminum lines and characters; - Collins Rad part/dwg #505 2727 003	
O-301		GEAR : Same as O-101	
O-302		GEAR : Same as O-104	
O-303		GEAR : Same as O-104	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-304		GEAR : Same as O-104	
O-305		GEAR : Same as O-106	
O-306		GEAR : Same as O-106	
O-307		GEAR . Same as O-106	
O-308		GEAR : Same as O-106	
O-309		GEAR : Same as O-106	
O-310		GEAR : Same as O-106	
O-311		GEAR : Same as O-102	
O-312		GEAR : Same as O-102	
O-313		GEAR : Same as O-102	
O-314		GEAR, SPUR : anodized aluminum; idler; straight teeth; 54 teeth; 48 pitch, 1. 125'' PD; 1. 164'' OD × 0. 093'' gear face wd; straight face; hub 0. 127'' thk × 7/16'' diam; 0. 2500'' ID for shaft mtg; - Collins Rad part/dwg #505 0671 002	
O-315		GEAR : Same as O-314	
O-316		GEAR, SPUR : anodized aluminum; drives step tuner; straight teeth; 54 teeth; 48 pitch, 1. 125'' PD; 1. 164'' OD × 0. 093'' gear face wd; straight face; hub 0. 250'' thk × 0. 312'' diam, four 0. 032'' wd × 0. 235'' d slots equally spaced; 0. 2500'' ID for shaft mtg; - Collins Rad part/dwg #505 0672 002	
O-317		SPRING : Same as O-110	
O-318		SPRING : Same as O-110	
O-319		CLAMP : Same as H-108	
O-320		CLAMP : Same as H-108	
O-321		CLAMP : Same as H-108	
O-322		CLAMP : Same as H-108	
O-323		HUB : Same as O-112	
R-301		RESISTOR : Same as R-106	
R-302	5905 PE-971 723	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 22,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406'' lg, 0. 175'' diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1142 00; JAN spec JAN-R-11, type RC20BF223K; for general purpose use	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
R-303		RESISTOR : Same as R-103	
R-304	5905 PE- 971 722	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 18,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1139 00; JAN spec JAN-R-11, type RC20BF183K; for general purpose use	
R-305	5905 PE- 971 719	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 10,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1128 00; JAN spec JAN-R-11, type RC20BF103K; for general purpose use	
R-306		RESISTOR : Same as R-106	
R-307		RESISTOR : Same as R-302	
R-308		RESISTOR : Same as R-103	
R-309		RESISTOR : Same as R-304	
R-310		RESISTOR : Same as R-101	
R-311	5905 PE- 971 760	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg group 2 : 47,000 ohms p/m 10 % tol; 2 w power dissipation; temp characteristic letter E; 0. 750" lg × 0. 370" diam max; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 9167 00; JAN spec JAN-R-11, type RC42BE473K; for general purpose use	
R-312		RESISTOR : Same as R-101	
R-313		RESISTOR : Same as R-311	
R-314		RESISTOR : Same as R-101	
R-315		RESISTOR : Same as R-311	
V-301	5960 PE- 981 152	ELECTRON TUBE : sharp-cutoff pentode; glass envelope, miniature, 7 terminations, pin type; JAN type 5654/6AK5W; - Collins Rad part/dwg #254 0846 00; MIL spec MIL-E-1B	
V-302		ELECTRON TUBE : Same as V-301	
V-303		ELECTRON TUBE : Same as V-101	
V-304		ELECTRON TUBE : Same as V-101	
V-305		ELECTRON TUBE : Same as V-101	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
XV-301		SOCKET : Same as XV-101	
XV-302		SOCKET : Same as XV-101	
XV-303		SOCKET : Same as XV-101	
XV-304		SOCKET : Same as XV-101	
XV-305		SOCKET : Same as XV-101	
Z-301	1800 PE-914 050	TUNER, RADIO FREQUENCY : plate circuit of the 1st tube for the freq multiplier amplr; ceramic base plate, one coil, 4 turns of #16 copper wire, no form, air core, one wedge shaped coil, 17-1/2 turns of #20 AWG copper wire; mica filled phenolic form, air core; range 60. 0 to 116. 7 mc; one Elkonium #18 silver alloy contact, one silver pl beryllium copper ground contact; irregular shape; 2. 609" lg x 2" wd x 2.375" h o/a; three 0. 130" diam mtg holes spaced 120 deg apart on 2. 000" diam; entire tuner coated with fungi resistant varnish; - Collins Rad part/dwg #505 0824 004	
Z-302	1700-019 376 350	SUPPRESSOR, PARASITIC : resistor and coil; 0. 193" diam × 1-1/8" lg less term; 30 right hand turns of #26 soft copper wire-close wound at 55 turns per inch, inductance 0. 7 uh, 22 ohm p/m 10 % resistance, 1/2 w; cylindrical, silicone saturated fiberglas; two axial wire lead term 9/16" lg; coated with fungi resistant varnish; - Collins Rad part/dwg #505 0028 002	
Z-303	1700-019 787 500	TUNER, RADIO FREQUENCY : plate circuit of injection system; c/o stator, rotor, contact, front plate, ball bearing, and mtg hardware, silver pl brass stator and rotor plates, silver pl beryllium copper contact; range 180-350 mc, linear tuning at the rate of 1 mc per 1 deg; 2. 921" lg × 2" wd × 1. 531" h o/a; mtd by four #4-40 NC-2 holes located on front bearing plate; - Collins Rad part/dwg #504 9758 003	
Z-304	1700-019 378 300	SUPPRESSOR, PARASITIC : resistor and coil; 0. 193" diam × 1-1/8" lg less term; 26 right hand turns of #26 soft copper wire close wound at 55 turns per inch, inductance 0. 6 uh, 22 ohm p/m 10 % resistance, 1/2 w; cylindrical, silicone saturated fiberglas; two axial wire lead term 9/16" lg; coated with fungi resistant varnish; - Collins Rad part/dwg #505 0677 002	
Z-305		TUNER : Same as Z-303	
Z-306		SUPPRESSOR : Same as Z-302	
Z-307		TUNER : Same as Z-303	
Z-308		SUPPRESSOR : Same as Z-304	
Z-309		TUNER : Same as Z-303	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
401-499 series		AMPLIFIER, INTERMEDIATE FREQUENCY : freq range 40. 0 mc to 49. 9 mc in 0. 1 increments, contains xtal osc and mixer which converts to a var freq of 9. 0 mc to 9. 9 mc ; o/a output has approx 17 db v gain; 13-1/2" lg × 4-3/4" wd × 5-5/8" d o/a; power input of 6. 3 v AC at 1. 5 amp, 200 v DC at 15 ma and AVC v of minus 1 v DC to minus 9 v DC; incl 10 xtal and 4 tubes; mtd in main rec frame and secured by captive screws; tuned by a gear driven differential slug rack; p/o Army-Navy Receiver R-278B/GR; - ACEC part/dwg #ACEC 505 0513 005, substitute for Collins Rad part/dwg #505 0513 005	
A-401		PLATE, BASE : 1st IF amplr, chromate dipped aluminum; « U » shape; 12-1/4" lg × 1-1/2" wd × 1/2" h; eight 0. 140" diam mtg holes on bottom in 2 rows 0. 750" apart and spaced 0. 157", 2. 719", 4. 594", 10. 031" from one end; ten #4-40 NC-2 tapped holes, 5 on each side, spaced 0. 469", 2. 406" 4. 906" 8. 719" 12. 031" from one end; - Collins Rad part/dwg #505 0512 004	
A-402		PLATE, GEAR : for 1st IF amplr; c/o post, 3 bearing and 3 thimbles; aluminum chromate dipped plate, type #303 steel post and thimbles, porous bronze bearings; « L » shape; 4" lg × 3. 375" wd × 0. 750" thk o/a; shaft mtd; black silk screening letters and numerals 1/8" h; five #4-40 NC-2 tapped holes 9/32" d, 3 on top and 2 on bottom for mtg to bottom plate; - Collins Rad part/dwg #505 0457 002; (incl O-423, O-425, O-426, O-457, O-458)	
A-403		PLATE, BEARING : for 2nd osc; c/o one bearing and thimble; aluminum, chromate dipped plate, porous bronze bearing, type #303 steel thimble; 3. 375" lg × 1.500" wd × 0. 280" thk o/a; shaft mtd; black silk screening letters and numerals 1/8" h; four #4-40 NC-2 tapped holes 9/32" d, 2 on top and 2 on bottom for mtg to bottom plate; - Collins Rad part/dwg #505 0467 002; (incl O-427, O-459)	
A-404		PLATE, BEARING : for 1st IF amplr, front; c/o one bearing and thimble; aluminum, chromate dipped plate, porous bronze bearing, type #303 steel thimble; 3. 375" lg × 1. 500" wd × 0. 280" thk o/a; shaft mtd; black silk screening letters and numerals 1/8" h; four #4-40 NC-2 tapped holes 9/32" d, 2 on top and 2 on bottom for mtg to bottom plate; - Collins Rad part/dwg #505 0469 002; (incl O-428, O-460)	
A-405		PLATE, BEARING : for IF amplr; c/o plate and 2 bearings; chromate dipped aluminum plate, 1 SS bearing and 1 porous bronze bearing; 3. 375" lg × 1.500" wd × 1/4" thk o/a; 4 holes tapped #4-40 NC-2 × 9/32" d, 2 spaced 1. 250" c to c on top and 2 spaced 0. 750" c to c on bottom; black silk screening letters and numerals 1/8 h; - Collins Rad part/dwg #505 0472 002; (incl O-429, O-461)	
A-406		PLATE, BEARING : for IF amplr, rear; c/o plate, shaft and bearing; type #302 SS passivated plate, type #303 SS shaft, porous bronze bearing; 2-3/16" lg × 3/4" wd × 0. 456" thk o/a; shaft mtg, 2 slots 1/4" wd × 1/2" d, one on each end; - Collins Rad part/dwg #505 0473 002; (incl O-414)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
A-407		PLATE, BEARING : for IF amplr, front; c/o plate, shaft and bearing; type #302 SS passivated plate, type #303 SS shaft, porous bronze bearing; 2-3/16" lg × 3/4" wd × 0. 456" thk o/a; shaft mtg, 2 slots 1/4" wd × 1/2" d one on each end; - Collins Rad part/dwg #505 0475 002; (incl O-415)	
A-408		CHASSIS : 1st IF amplr; chromate dipped aluminum chassis type #303 steel retainers; « L » shape; 12-5/16" lg × 4-3/4" wd × 0. 375" thk o/a; seven retainers riveted and staked to chassis for #4-40 mtg screws; black silk screening letters and numerals 3/32" h; - Collins Rad part/dwg #505 0508 003	
A-409		BRACKET, bearing and xtal sw; « L » shape; chromate dipped aluminum, 1-7/8" lg × 1-1/4" wd × 1/2" thk o/a; mts by two 0. 140" diam holes spaced 1. 562" c to c; - Collins Rad part/dwg #505 0478 002	
A-410		COVER, ELECTRICAL CONNECTOR : for 1st IF amplr; anodized aluminum can; rectangular; 1.264" lg × 1-19/64" wd × 1. 281" h o/a; 0. 375" diam cable opening on one side, two #6-32 NC-2 screws in cable clamp for holding cable secure; black silk screening letters and numerals 3/32" h; for 11 contact male or female connector; - Collins Rad part/dwg #505 1830 001	
A-411		PLATE, ELECTRICAL SHIELD : shields grid circuit from plate circuit, supports 2 bypass capacitors; silver pl brass; flat; 1-1/8" lg × 5/16" wd × 1" h o/a; two mtg feet, one #4-40 NC-2 tapped hole in each foot,, 7/8" c to c; - Collins Rad part/dwg #503 4990 001	
A-412		COVER : 1st IF amplr, right side; chromate dipped aluminum; rectangular; 12-1/4" lg × 3-1/2" wd × 0. 301" thk o/a; seven #4-40 tapped inserts riveted to cover for mtg spaced asymmetrically 0. 125" from edge, five 0. 140" diam holes for mtg spaced asymmetrically 0. 313" from edge; one 9/16" d × 1" wd slot in cover; - Collins Rad part/dwg #505 0506 003	
A-413		COVER : 1st IF amplr, left side; chromate dipped aluminum; rectangular; 12-1/4" lg × 3-1/2" wd × 0. 301" thk o/a; six #4-40 tapped inserts riveted to cover for mtg spaced asymmetrically 0. 125" from edge, five 0. 140" diam holes for mtg spaced asymmetrically 0. 313" from edge; two self-clinching #4-40 fasteners, one 9/16" d × 1" wd slot in cover; - Collins Rad part/dwg #505 0507 003	
A-414		COVER : 1st IF amplr, xtal sw; chromate dipped aluminum; rectangular; 2. 7697" lg × 2. 438" wd × 2. 1250" d o/a; two 0. 147" diam mtg holes spaced 1. 937" c to c in mtg bkt, two tapped #4-40 inserts riveted to cover spaced 1. 937" c to c; - Collins Rad part/dwg #505 0466 002	
A-415		COVER : 1st IF amplr, end; chromate dipped aluminum; rectangular; 2-1/2" lg × 1. 767" wd × 1/8" thk o/a; four 0. 147" diam mtg holes spaced 2" × 1.250" c to c, one tapped #4-40 insert riveted to cover on one end; - Collins Rad part/dwg #505 0465 002	
A-416		COVER : xtal board; aluminum cover, silver pl beryllium copper spring, cad pl brass rivets; rectangular; 1. 853" lg × 1. 950" wd × 1.950" h o/a; two 0. 140" diam mtg holes spaced 1. 032" c to c; black silk screening letters and numerals 1/16" h; spring riveted to top of cover; - Collins Rad part/dwg #505 0504 003	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
A-417		PLATE, ANCHOR : xtal holddown; XXP laminated thermosetting plastic square; 1-7/8" lg × 1-7/8" wd × 1/16" thk; two 3/8" diam mtg holes 1-1/32" c to c; varnish impr; - Collins Rad part/dwg #505 0429 002	
C-401		CAPACITOR : Same as C-201	
C-402		CAPACITOR : Same as C-201	
C-403		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC; rotary type, single sect; 0. 8 to 7. 0 mmf; 500 vdcw; temp coef + 120 (tol p/m 100) mmf/mf/°C; 5/16" OD × 2-11/32" lg max; radial wire lead term; single #12-28 NC-2 mtg bushing; scdr slot adj; - Collins Rad part/dwg #917 1053 00; (p/o T-401)	
C-404		CAPACITOR, FIXED, CERAMIC DIELECTRIC : 33 mmf p/m 2 %; neg temp coef 150 (tol plus 60) mmf/mf/°C; 500 vdcw; 0. 460" lg × 0. 240" diam case; two 1-1/4" lg radial wire lead term; ins body; Durez dip coating; varnish impr, fungi resistant; - Collins Rad part/dwg #928 4853 00; (p/o T-401)	
C-405		CAPACITOR : Same as C-201	
C-406		CAPACITOR : Same as C-404 (p/o T-401)	
C-407		CAPACITOR : Same as C-403 (p/o T-401)	
C-408		CAPACITOR : Same as C-107	
C-409		CAPACITOR : Same as C-204	
C-410		CAPACITOR : Same as C-204	
C-411	3330- 314 693 508	CAPACITOR, FIXED, MICA DIELECTRIC : button style; 500 mmf p/m 20 %; 500 vdcw; temp coef letter E; 0. 463" diam × 1/4" d max, less term; brass, silver pl case; single axial solder lug term; oil impr, resin seal coated w/ varnish; - Collins Rad part/dwg #912 0937 00	
C-412		CAPACITOR : Same as C-204	
C-413		CAPACITOR : Same as C-201	
C-414		CAPACITOR : Same as C-403 (p/o T-402)	
C-415		CAPACITOR : Same as C-404 (p/o T-402)	
C-416		CAPACITOR : Same as C-404 (p/o T-402)	
C-417		CAPACITOR : Same as C-403 (p/o T-402)	
C-418		CAPACITOR : Same as C-107	
C-419		CAPACITOR : Same as C-201	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
C-420	3330- 055 475 054	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 100 mmf ± 10 % tol; temp coef -330 mmf/mf/°C; style 1, Ref Dwg Group 1; ins body; 0. 710" lg × 0. 280" diam; 2 term radial wire lead type 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; - Collins Rad part/dwg #928 4003 00	
C-421		CAPACITOR : Same as C-403 (p/o T-403)	
C-422		CAPACITOR, FIXED, CERAMIC DIELECTRIC : 20 mmf p/m 2 %; neg temp coef 150 (tol plus 60) mmf/mf/°C; 500 vdcw; 0. 400" lg × 0. 200' diam case; radial wire leads; ins body; Durez dip #9841, varnish impr, fungi resistant; - Collins Rad part/dwg #928 0294 00; (p/o T-403)	
C-423		CAPACITOR : Same as C-201	
C-424		CAPACITOR, FIXED, CERAMIC DIELECTRIC : 22 mmf p/m 2 %; neg temp coef 150 (tol plus 60) mmf/mf/°C; 500 vdcw; 0. 400" lg × 0 200" diam case; radial wire leads; ins body; Durez dip #9841, varnish impr, fungi resistant; - Collins Rad part/dwg #928 0298 00; (p/o T-403)	
C-425		CAPACITOR : Same as C-403 (p/o T-403)	
C-426		CAPACITOR : Same as C-201	
C-428	3330- 055 475 253	CAPACITOR, FIXED, CERAMIC DIELECTRIC; 500 vdcw; 47 mmf ± 5 %, temp coef 0; pos tol 60 mmf/mf/°C; style 1, Ref Dwg Group 1; ins body; 0. 710" lg × 0. 280" diam; 2 term radial wire lead type 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; - Collins Rad part/dwg #928 4362 00	
C-429		CAPACITOR : Same as C-201	
C-430		CAPACITOR : Same as C-411	
C-431	3330- 055 475 271	CAPACITOR, FIXED, CERAMIC DIELECTRIC; 500 vdcw; 0. 5 mmf ± 1/4 mmf tol; temp coef 0; pos tol 250 mmf/mf/°C; style 1, Ref Dwg Group 1; ins body; 0. 435" lg × 0. 200" diam; 2 term radial wire lead type 0. 032" or 0. 025 " diam tinned wire, 1-1/4" lg min; - Collins Rad part/dwg #928 0067 00	
C-432		CAPACITOR : Same as C-431	
C-433		CAPACITOR : Same as C-431	
E-401		CAP : Same as E-301	
E-402		CAP : Same as E-301	
E-403		CAP : Same as E-301	
E-404		CAP : Same as E-201	
E-405	1700- 061 750 020	CORE, ADJUSTABLE TUNING : for permeability tuning; powdered iron core, silver pl brass stud; freq range 40.0 mc to 50. 0 mc; ambient temp minus 55°C to plus 85°C; cylindrical; 2.250" lg × 0. 255" diam; #8-32 NC-2 thd 13/16" lg; 3/64" wd × 3/32" d slot in end of stud for tuning; bronze lead of core soldered 1/2 lg of slot; Collins Rad part/dwg #505 0479 002	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
E-406		CORE : Same as E-405	
E-407		CORE : Same as E-405	
E-408		CORE : Same as E-405	
E-409		CORE : Same as E-405	
E-410		CORE : Same as E-405	
E-411	3320- 331 265 883	TERMINAL, STUD : molded melamine body, terminal brass, tin dipped, insert, brass, cad pl; round post shape; 23/32" lg o/a, 17/32" lg less term, 1/4" diam; #4-40 NC-2 tapped 3/16" d one end, slotted solder lug other end; - Collins Rad part/dwg #306 0090 00	
E-412		TERMINAL : Same as E-411	
E-413		TERMINAL : Same as E-411	
E-414		TERMINAL : Same as E-411	
E-415		TERMINAL : Same as E-411	
E-416		INSULATOR, BUSHING : round; LTS-E-2 natural, form R laminated, thermosetting plastic; 9/16" lg; 5/16" OD, #4-40 NC-2 ID for mtg; varnish impr; - Collins Rad part/dwg #505 0419 001	
E-417		INSULATOR : Same as E-416	
E-418		INSULATOR, BUSHING : round; MTS-E3 mica filled phenolic; 5/16" lg; 0. 187" OD, 0. 036" ID for mtg; varnish impr; - Collins Rad part/dwg #504 9474 002	
E-419		TERMINAL : Same as E-103	
E-420	5340 PE- 291 365	SPRING, HELICAL EXTENSION : for hold down of crystal; beryllium copper, silver plated, heat treated; « open V » shape; 1-13/16" lg, 5/8" w, 1/4" d; 45 deg bent; w/flat contacts; provided w/2 ctr mtg holes, 0. 093" dia; 0. 375" c to c; - Collins Rad part/dwg #505 0422 002	
H-401		SCREW, CAPTIVE : Phillips drive; Bind H, unfinished; type #430 SS; #4-40 NC-2; 5/8" lg; threaded 0. 281" lg one end 1/32" lg under head; 0. 083" thk × 0. 227" diam head; unthreaded portion 0. 075" diam × 5/16" lg, head E red; - Collins Rad part/dwg #505 0793 002; (7 each used)	
H-402		RING, RETAINER : for use on 0. 094" diam shaft; steel, cad pl; w/ 0. 017" groove wd; type #E ring; 0. 187" OD × 0. 073" ID × 0. 015" thk o/a; ring dehydrogenized after pl; - Collins Rad part/dwg #340 0086 00; (6 each used)	
H-403		RING : Same as H-104 (3 each used)	
H-404		WASHER : Same as H-103 (3 each used)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-405		PIN, TAPER : SS plain finish; #7/o taper; 0. 062" largest diam, 3/8" lg; commercial; (1 p/o O-430, 1 p/o O-431, 1 p/o O-432); - Collins Rad part/dwg #311 7003 00; (10 each used)	
H-406		WASHER, THRUST : used w/idler gear assem; SS, type #302; 3/8" OD, 0. 191" ID, 0. 018" thk; - Collins Rad part/dwg #504 7478 002; (6 each used)	
H-407		Not Used	
H-408		WASHER : Same as H-106 (9 each used)	
H-409		SCREW : Same as H-107 (2 each used)	
H-410		NUT : Same as H-109 (2 each used)	
H-411		RING, RETAINER : for use on 0. 187" diam shaft; steel, cad pl; type #E rings; 0. 335" OD × 0. 145" ID × 0. 025" thk o/a; ring shall be dehydrogenized after pl; - Collins Rad part/dwg #340 0090 00; (9 each used)	
H-412		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; steel, cad pl; #4-40 NC-2; 3/8" lg; threaded to head; - Collins Rad part/dwg #343 0422 00; (30 each used)	
H-413		WASHER, LOCK : steel cad pl; round 5/32" ID, 9/32" OD, 0. 018" thk; twisted ext teeth, shakeproof type; for #4 machine screw; - Collins Rad part/dwg #373 5010 00; (50 each used)	
H-414		SCREW : Same as H-121 (4 each used)	
H-415		POST, SPACING : spaces xtal socket from chassis; aluminum, chromate dipped; cylindrical hex; 1. 000" lg × 1/4" across flats; each end tapped #4-40 NC-2 × 3/8" d for mtg; - Collins Rad part/dwg #505 0418 001; (2 each used)	
H-416		WASHER : Same as H-224 (8 each used)	
H-417		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished, cold headed; steel, cad pl; #4-40 NC-2; 5/8" lg; threaded to head; head 0. 219" diam × 0.080" thk; - Collins Rad part/dwg #343 0428 00	
H-418		POST, SPACING : spaces xtal selector from chassis; anodized aluminum; cylindrical; 1/4" OD × 0. 375" lg; 0. 134" ID for mtg; - Collins Rad part/dwg #502 1671 001; (4 each used)	
H-419		CLAMP : cable; CRS; cad pl; one bolt employed; 0. 739" lg × 3/8" h; 13/64" diam matl; - Collins Rad part/dwg #507 6860 00	
H-420		TERMINAL : Same as H-113 (9 each used)	
H-421		WASHER, FLAT : phenolic; round 0. 116" ID, 0. 187" OD, 0. 031" thk; fung resist; - Collins Rad part/dwg #302 0262 00; (8 each used)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-422		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; nickel pl brass; #3-48 NC-2; 1/4" lg; threaded to head; 0. 074" lg × 0. 193" diam head; - Collins Rad part/dwg #343 0384 00; (9 each used)	
H-423		SCREW, MACHINE: Phillips drive; FH unfinished; steel, cad pl; #4-40 NC-2; 1/4" lg; threaded to head; 0. 225" diam × 0. 067" thk; - Collins Rad part/dwg # 342 0276 00; (2 each used)	
H-424		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; cad pl steel; #4-40 NC-2; 1/4" lg; threaded to head; 0. 219" diam × 0. 080" thk head; - Collins Rad part/dwg #343 0418 00; (24 each used)	
H-425		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished; cold headed; #4-40 NC-2; 5/16" lg; threaded to head; - Collins Rad part/dwg #343 0420 00; (6 each used)	
H-426		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished, cold headed; steel, cad pl; #4-40 NC-2; 1/2" lg; threaded to head; head 0. 219" diam × 0. 080" thk; - Collins Rad part/dwg #343 0426 00; (2 each used)	
H-427		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; cad pl steel; #4-40 NC-2; 3/4" lg; threaded to head; 0. 083" thk × 0. 219" diam head; - Collins Rad part/dwg #343 0430 00; (2 each used)	
H-428		SCREW, MACHINE : Phillips drive; Bind H; cad pl steel; #4-40 NC-2; 1" lg; threaded to head; 0. 083" lg × 0. 219" diam head; - Collins Rad part/dwg #343 0434 00; (2 each used)	
H-429		NUT : Same as H-204 (4 each used)	
H-430		NUT, PLAIN, HEXAGON : steel, cad pl; #4-40 NC-2; 3/32" thk; 1/4" wd across flats; double chamfered; - Collins Rad part/dwg #313 0112 00; (16 each used)	
H-431		WASHER : Same as H-230 (9 each used)	
H-432		SCREW, MACHINE : Phillips drive; FH; steel, cad pl; #4-40 NC-2; 5/16" lg; threaded to head; 0. 225" diam × 0. 067" thk head; - Collins Rad part/dwg #342 0278 00; (2 each used)	
H-433		WASHER : Same as H-242 (3 each used)	
H-434		WASHER, LOCK : cad pl steel; round 15/32" OD, 1/4" ID, 0. 025" thk; twisted internal teeth, shakeproof type; - Collins Rad part/dwg #373 1080 00	
H-435		WASHER : Same as H-413 (24 each used)	
H-436		STUD : cad pl brass; 3/4" lg o/a; #4-40 NC-2 threaded o/a; slightly chamfered each end; - Collins Rad part/dwg #312 0067 00	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-437		SCREW, MACHINE : slot drive; straight side Bind H; brass, cad pl; #4-40 NC-2; 1/4" lg; threaded to head; head 0. 235" diam × 0. 063" thk; - Collins Rad part/dwg #323 0019 00; (2 each used)	
H-438		Not Used	
H-439		WASHER, FLAT : black syn rubber; round, 17/32" OD, 0. 390" ID, 0. 032" thk; - Collins Rad part/dwg #201 0136 00 (4 each used)	
H-440		WASHER, LOCK : steel, cad pl; round, 0. 500" OD, 0. 380" ID, 0. 022" thk tw int teeth; shakeproof type; for 3/8" diam screw; - Collins Rad part/dwg #373 0081 00; (8 each used)	
J-401		Not Used	
J-402	8850- 767 839	CONNECTOR, RECEPTABLE, ELECTRICAL : 1 round female cont; straight; hex 1/2" across flats × 1-1/16" lg max; cylindrical, brass, cad pl body and nut, beryllium copper, silver pl cont; molded melamine type CMG insulation; body and nut thd 3/8"-32 NEF-2 for mtg; black head; - Collins Rad part/dwg #360 0054 00	
J-403		CONNECTOR : Same as J-402	
J-404		CONNECTOR : Same as J-402	
J-405	5935- 549-8 161	CONNECTOR, RECEPTABLE, ELECTRICAL : 1 round female cont; straight; hex 1/2" across flats × 1-1/16" lg mox; cylindrical, brass, cad pl body and nut, beryllium copper, silver pl cont; molded melamine type CMG insulation; body and nut thd 3/8"-32 NEF-2 for mtg; yellow head; - Collins Rad part/dwg #360 0056 00	
L-401		COIL : Same as L-102	
L-402		COIL, RADIO FREQUENCY : IF transformer; single wnd, single layer wnd; unshielded; 7 turns of #24 tinned wire; 1-9/16" lg × 0. 664" diam, less term; plastic form, air core; 1-9/16" lg × 0. 321" diam coil form; capacitor tuning, not incl; 2 radial wire lead term; leads soldered to silver pl retaining rings; - Collins Rad part/dwg #505 0460 002; (p/o T-401)	
L-403		COIL : Same as L-402 (p/o T-401)	
L-404		COIL : Same as L-402 (p/o T-402)	
L-405		COIL : Same as L-402 (p/o T-402)	
L-406	3340- 060 702 020	COIL, RADIO FREQUENCY : choke; single wnd, single layer wnd; unshielded; 2. 7 uh plus 20 % minus 0; 45 turns plus 0 minus 3 #30 AWG E copper wire; 3/4" lg × 1/4" diam; phenolic grade MTS-E-3; 5/8" lg × 0. 170" diam form; 1-1/2" lg pigtails; two axial wire leads; Durez #9841 dip; - Collins Rad part/dwg #240 0080 00	
L-407		COIL, RADIO FREQUENCY : choke; single wnd, single layer wnd; unshielded; 10 turns of #20 tinned wire; 1-9/16" lg × 0. 490" diam less term; plastic form, air core; 1-9/16" lg × 0. 321" diam; 0. 259" diam hole through ctr; 2 radial wire leads; - Collins Rad part/dwg #505 0461 002; (p/o T-403)	
L-408		COIL : Same as L-407 (p/o T-403)	
L-409		COIL : Same as L-406	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
N-401		PLATE, INSTRUCTION : 1st IF ampl schematic, R-278B/GR; aluminum; rectangular; 7" lg × 2-5/8" wd × 0. 031" thk o/a; six 0. 106" diam holes spaced on 3. 375" × 2. 375" mtg/c; black background w/low gloss anodized aluminum lines and characters; - Collins Rad part/dwg #505 9017 004	
O-401		RACK : tuning core, 1st IF amplr; two type #303 steel shafts and 4 nuts riveted and staked to type #302 steel rack; 5. 124" lg x 1-3/8" wd x 2. 078" h o/a; black silk screening letters and numerals 1/8" h, slot 0. 192" wd x 1-1/2" lg in each end; Collins Rad part/dwg #505 0501 003	
O-402		RACK : tuning core, 2nd osc; two type #303 steel shafts and nuts riveted and staked to type #302 steel rack; 2. 280" lg × 1-3/8" wd × 2. 078" h o/a; black silk screening letters and numerals 1/8" h, slot 0. 192" wd × 1-1/2" lg in each end; - Collins Rad part/dwg #505 0500 003	
O-403		ROD, TIE : spring; chromate dipped aluminum; cylindrical; 10-5/16" lg × 0. 187" OD; one #4-40 NC-2 tapped hole 1/4" d on one end for mtg; six 0. 160" diam × 0. 062" wd necks spaced 1/2", 1-13/16", 3-31/32", 4-15/16", 9-1/8" and 10-3/32" from one end; - Collins Rad part/dwg #505 0431 002	
O-404	5995- 201-7 138	SPRING, HELICAL TENSION : locking; 0. 030" diam SS wire type #302; 0. 310" lg × 0. 20937" wd × 0. 020" thk o/a; straight ends; 0. 102" opening; - Collins Rad part/dwg #502 6005 002	
O-405		SPRING : Same as O-404	
O-406		SPRING : Same as O-404	
O-407		SPRING : Same as O-404	
O-408		SPRING : Same as O-404	
O-409		SPRING : Same as O-404	
O-410		FOLLOWER, CAM : facilitates free movement of cam; type #303 SS; round; 0. 247" OD × 0. 219" lg; 0. 0942" mtg hole; - Collins Rad part/dwg #504 9479 002	
O-411		FOLLOWER : Same as O-410	
O-412		FOLLOWER : Same as O-410	
O-413		FOLLOWER : Same as O-410	
O-414		BEARING, SLEEVE : bearing for shaft; porous bronze; 11/64" lg × 15/32" OD × 0. 1885" ID; - Collins Rad part/dwg #309 0079 00; (p/o A-406)	
O-415		BEARING : Same as O-414 (p/o A-407)	
O-416	1700- 019 252 700	SPRING, HELICAL COMPRESSION : holds tuning slug rack stationary; type #303 SS spring wire 0. 0230" diam; 0. 230" max OD, solid lg 0. 850", oper lg 1. 25" to 1. 64"; 16 turns; right hand turns; parallel hook term; sq cut ends; hook at each end, min opening of each hook 0. 050"; gradual release; - Collins Rad part/dwg #503 5106 002	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-417		SPRING : Same as O-416	
O-418		SPRING : Same as O-416	
O-419		SPRING : Same as O-416	
O-420		SPRING : Same as O-416	
O-421		SPRING : Same as O-416	
O-422		GEAR, SPUR : anodized aluminum; transports power to xtal sw; straight teeth; 72 teeth; 48 pitch, 1. 500" PD; 1. 55469" OD × 0. 081" gear face wd; straight face; 1/2" OD × 0. 344" thk hub o/a; 0. 2500" ID; - Collins Rad part/dwg #309 5110 00; (p/o A-402) #505 0480 002	
O-423		BEARING, SLEEVE : bearing for shaft; porous bronze; 1/2" lg × 3/8" OD, 1/4" ID; mfr; - Collins Rad part/dwg #309 5110 00; (p/o A-402)	
O-424		Not Used	
O-425		BEARING : Same as O-414 (p/o A-402)	
O-426		BEARING : Same as O-414 (p/o A-402)	
O-427		BEARING : Same as O-414 (p/o A-403)	
O-428		BEARING : Same as O-414 (p/o A-404)	
O-429		BEARING : Same as O-414 (p/o A-405)	
O-430		CAMSHAFT : 2nd osc; c/o 2 cams with hubs and one coupler hub pinned to shaft; steel; cylindrical; 1" OD × 4. 686" lg o/a; passes trough 1st IF amplr gear plate and 2nd osc bearing plate and held securely by retaining rings; four 0. 064" diam holes, one in hub of each cam, one in coupler hub and one in gear; - Collins Rad part/dwg #505 0499 003; (incl 4 H-405, O-451, O-452, O-453, O-454, O-455)	
O-431		CAMSHAFT: 1st IF amplr; c/o 2 cams with hubs and one coupler hub pinned to shaft; steel; cylindrical; 1" OD × 6. 717" lg o/a; passes through front and rear IF amplr plates and held securely by retaining rings; three 0. 064" diam holes, one in hub of each cam and one in hub of coupler; - Collins Rad part/dwg #505 0498 003; (incl 3 H-405, O-447, O-448, O-449, O-450)	
O-432		CAMSHAFT : 1st IF amplr; c/o 2 cams with hubs and one coupler hub pinned to shaft; steel; cylindrical; 1" OD × 11. 280" lg o/a; passes trough amplr and osc plates, held securely by retaining ring and collars; three 0. 064" diam holes, one in hub of each cam and one in hub of coupler; - Collins Rad part/dwg #505 0497 003; (incl. 3 H-405, O-443, O.444, O-445, O-446)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-433		SHAFT : xtal sw; type #303 steel shaft, plastic ins; cylindrical; 2. 749" lg × 2. 495" diam; passes through plates and held secure by a clamp; groove pin and ins pressed into shaft, ins flatted to 0. 184" wd × 5/16" lg, one 0. 032" wd × 0. 046" d slot in both ends of shaft, two 0. 028" wd × 0. 210" d grooves located 0. 718" and 1. 750" from end; - Collins Rad part/dwg #505 0477 002	
O-434		COLLAR, SPACING : spaces cam from plate; type #303 steel; round; 3/8" OD × 0. 218" lg; 0. 120" ID for shaft mtg, neck 0. 055" wd × 0. 248" diam for mtg to plate; corrosion resistant; - Collins Rad part/dwg #505 0445 002	
O-435		COLLAR : Same as O-434	
O-436		GEAR, SPUR : anodized aluminum; idler; straight teeth; 57 teeth; 48 pitch, 1. 1875" PD; 31/64" OD × 0. 093" gear face wd; straight face; hub 0. 312" diam × 0. 2195" thk, split in 4 sections, slots 0. 032" wd × 0. 203" d; 0. 2500" ID for shaft mtg; - Collins Rad part/dwg #505 0482 002	
O-437		CLAMP : Same as H-108	
O-438		CLAMP : Same as H-108	
O-439		SPIDER, COUPLING : type #303 steel; round, flat; 1" OD × 0.140" thk o/a; 0. 437" ID for shaft mtg, milled strip 0. 1560" wd × 0. 070" d on ea side, strip on one side at right angles to strip on other side; corrosion resistant; - Collins Rad part/dwg #505 0483 002	
O-440		HUB : coupler; type #303 steel; round; 1" OD × 0. 374" thk o/a; 0. 1875" ID for shaft mtg; corrosion resistant 0. 062" thk × 0. 155" wd raised portion across face; - Collins Rad part/dwg #505 0464 002	
O-441		COLLAR, SPACING : spaces cam from plate; type #303 steel; round; 3/8" OD × 0. 203" lg; 0. 189" ID for shaft mtg, neck 0.055" wd × 0.248" diam for mtg to plate; corrosion resistant; - Collins Rad part/dwg #505 0444 002	
O-442		COLLAR : Same as O-441	
O-443		HUB : coupler; type #303 steel, passivated finish; round; 1" OD × 0. 249" thk o/a; 0. 1875" ID for shaft mtg; 0. 062" thk × 0. 1553" wd raised portion across face; - Collins Rad part/dwg #504 9465 002; (p/o O-432)	
O-444		SHAFT: cam, 1st IF amplr; type #303 steel; cylindrical; 11-7/32" lg × 0. 1872" OD; one 0. 028" wd × 0. 147" diam groove spaced 5-5/32" from one end, corrosion resistant; - Collins Rad part/dwg #505 0433 002; (p/o O-432)	
O-445		CAM : 1st IF amplir, front; type #302 steel cam, type #303 steel hub; irregular shape; 1/4" thk × 0. 67 187" max OD; 0. 1875" ID of hub for shaft mtg; hub pressed into and silver soldered to right side of cam, corrosion resistant; - Collins Rad part/dwg #505 0450 002; (p/o O-432)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-446		CAM: 1st IF amplr rear; type #302 steel cam, type #303 steel hub; irregular shape; 1/4" thk × 0. 67187" max OD; 0. 1875" ID of hub for shaft mtg; hub pressed into and silver soldered to left side of cam, corrosion resistant; - Collins Rad part/dwg #505 0451 002; (p/o O-432)	
O-447		HUB : Same as O-443 (p/o O-431)	
O-448		SHAFT : :cam, 1st IF amplr; type #303 steel; cylindrical; 6-21/32" lg × 0. 1872" OD; four 0. 028" wd × 0. 147" diam groves spaced 0. 566", 0. 816", 1. 046", 1. 139" from one end, corrosion resistant; - Collins Rad part-dwg #505 0434 002; (p/o O-431)	
O-449		CAM : 1st IF amplr, front; type #302 steel cam, type #303 steel hub; irregular shape; 1/4" thk × 59/64" max OD; 0. 1875" ID of hub for shaft mtg; hub pressed into and silver soldered to left side of cam, corrosion resistant; - Collins Rad part/dwg #505 0448 002; (p/o O-431)	
O-450		CAM : 1st IF amplr, rear; type #302 steel cam, type #303 steel hub; irregular shape; 1/4" thk x 59/64" max OD; 0. 1875" ID of hub for shaft mtg; hub pressed into and silver soldered to left side of cam, corrosion resistant; - Collins Rad part/dwg #505 0449 002; (p/o O-431)	
O-451		HUB : Same as O-443 (p/o O-430)	
O-452		GEAR, SPUR : anodized aluminum; transports power to idler gears; straight teeth; 57 teeth; 48 pitch, 1. 1875" PD; 1. 234" OD × 0 093" face wd, 0. 1880" ID, 0.250" thk o/a; straight face; 3/8" diam × 0. 157" wd hub; shaft mtg; - Collins Rad part/dwg #505 0437 002; (p/o O-430)	
O-453		SHAFT : for cam, 2nd osc; type #303 steel; cylindrical; 4. 625" lg × 0. 1872" OD; corrosion resistant, four 0. 028" wd × 0. 147" diam grooves spaced 1. 066", 1. 316", 1. 421" and 1. 514" from one end; - Collins Rad part/dwg #505 0435 002; (p/o O-430)	
O-454		CAM: 2nd osc, front; type #302 steel cam, type #303 steel hub irregular shape; 1/4" thk × 31/32" max OD; 0. 1875" ID of hub for shaft mtg; hub pressed into and silver soldered to right side of cam, corrosion resistant; - Collins Rad part/dwg #505 0452 002; (p/o O-430)	
O-455		CAM : 2nd osc, rear, type #302 steel cam, type #303 steel hub irregular shape; 1/4" thk × 31/32" max OD; 0. 1875" ID of hub for shaft mtg; hub pressed into and silver soldered to left side of cam, corrosion resistant; - Collins Rad part/dwg #505 0453 002; (p/o O-430)	
O-456		Not Used	
O-457		RETAINER, BEARING : type #303 SS; round; 0. 500" OD × 0. 150" thk o/a; 0. 011" thk flange around one end for retaining; 0. 357" ID for bearing; - Collins Rad part/dwg #507 5618 00; (p/o A-402)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-458		RETAINER : Same as O-457 (p/o A-402)	
O-459		RETAINER : Same as O-457 (p/o A-403)	
O-460		RETAINER : Same as O-457 (p/o A-404)	
O-461		RETAINER : Same as O-457 (p/o A-405)	
O-462		FOLLOWER : Same as O-410	
O-463		FOLLOWER : Same as O-410	
O-464		PLATE, SPACER : lowers tube socket in chassis; silver pl brass; yoke; 1-1/2" lg × 3/4" wd × 0. 064" thk o/a; four 0. 140" diam mtg holes in 2 rows spaced 0. 406" apart 1. 187" c to c in back. 1. 125" c to c in front; - Collins Rad part/dwg #505 0481 002	
O-465		BUSHING : protects cable; silver pl brass; female; 7/8" lg × 3/8" hex o/a, 0. 156" ID × 17/32" d, 0. 219" ID × 11/32" d, 5/16" OD × 11/32" lg, 3/8" hex × 3/32" thk, 1/4" -28 NF-2 thd × 1/4" lg, 0. 195" diam × 3/16" lg, two 0. 193" diam soldering holes trough both sides 0. 093" from end; - Collins Rad part/dwg #504 9472 002	
P-401		CONNECTOR : Same as P-101	
P-402	8850-468 450	CONNECTOR, PLUG, ELECTRICAL : Navy type #UG-88/U; single round male cont; straight; 1-1/32" lg × 0. 563" diam o/a; 52 ohm impedance; cylindrical metal body; teflon insert; cable opening 0. 212" diam incl rubber gasket and washer and brass braid clamp; - Collins Rad part/dwg #357 9018 00; Navy dwg RE 49F 246B	
R-401		RESISTOR : Same as R-106	
R-402		RESISTOR : Same as R-101	
R-403		Not Used	
R-404	5905 PE-971 725	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 33,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1149 00; JAN spec JAN-R-11, type RC20BF333K; for general purpose use	
R-405	3350-131 000-6 231	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2; 39,000 ohmsk p/m 10 % tol; 1 w power dissipation; temp characteristic letter F; 0. 750" lg × 0. 280" diam max; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 3153 00; JAN spec JAN-R-11, type RC30BF 393K; for general purpose use	
R-406		Not Used	
R-407		RESISTOR : Same as R-106	
R-408		RESISTOR : Same as R-404	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
R-409	3350- 131 000-6 661	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 68,000 ohms p/m 10 % tol; 1 w power dissipation; temp characteristic letter F; 0.750" lg × 0. 280" diam max; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg # 745 3163 00; JAN spec JAN-R-11, type RC30BF683K; for general purpose use	
R-410		RESISTOR : Same as R-106	
R-411	3350- 098 000-4 231	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 6,800 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1121 00; JAN spec JAN-R-11, type RC20BF682K; for general purpose use	
R-412	5905 PE- 971 728	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 56,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1160 00; JAN spec JAN-R-11, type RC20BF563K; for general purpose use	
R-413	5905 PE- 971 735	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 270,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letters F; 0. 406" lg, 0. 175" diam; ins RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1188 00; JAN spec JAN-R-11, type RC20BF274K; for general purpose use	
R-414	3350- 131 000-4 751	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2; 6,800 ohms p/m 5 % tol; w power dissipation; temp characteristic letter F; 0. 750" lg × 0. 280" diam max; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 3120 00; JAN spec JAN-R-11, type RC30BF672J; for general purpose use	
R-415	5905 PE- 971 704	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 47 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1030 00; JAN spec JAN-R-11, type RC20BF470K; for general purpose use	
R-416	3350- 147 000-4 911	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 5,600 ohms p/m 5 % tol; 2 w power dissipation; temp characteristic letter E; 0. 750" lg × 0. 370" diam max; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 9128 00; JAN spec JAN-R-11, type RC42BE562J; for general purpose use	
R-417	5905 PE- ~~978 717~~ 971 717	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 4,700 ohms p/m 5 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1113 00; JAN spec JAN-R-11, type RC20BF472J; for general purpose use	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
R-418	3350- 101 000-3 791	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : :3,900 ohms p/m 5 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, ,0. 175" diam; ins; RTH and RSW; 2 term. axial wire lead type; HF appl; - Collins Rad part/dwg #745 1110 00; JAN spec JAN-R-11, type RC20BF392J; for general purpose use	
R-419		RESISTOR : Same as R-102	
S-401	3360 PE- 978 315	SWITCH SECTION, ROTARY : for 12 position rotary sw; 4 position utilized glass bonded mica, phenolic ins clip, spring silver alloy cont. coin silver alloy rotor; 1 pole, 11 position; flat round; 1. 299" diam × 1/8" thk o/a; 2 mtg holes to pass #4 screw 1. 031" c to c, ctr hole 0. 186" wd × 0. 250" lg for shaft mtg; - ACEC part/dwg #ACEC 269 1342 00; substitute for Collins Rad part/dwg #269 1342 00	
T-401	3340- 063 100 160	TRANSFORMER, INTERMEDIATE FREQUENCY : 40. 0 to 49. 9 mc freq range; interstage; shielded; 1. 425" lg × 1. 425" wd × 1. 863" h, less term and mtg attachments; air core; double tuned; ceramic capacitor tuning; two studs threaded #4-40 NC-2 diagonally spaced on 1. 062" × 1. 062" mtg/c for mtg; 4 silver pl brass term; 4 capacitors, two 0. 8 to 7. 0 mmf, one 30 mmf, one 33 mmf; - Collins Rad part/dwg #505 0502 003; (incl C-403, C-404, C-406, C-407, L-402, L-403)	
T-402		TRANSFORMER : Same as T-401 (incl C-414, C-415, C-416, C-417, L-404, L-405)	
T-403	3340- 064 500 030	TRANSFORMER, VARIABLE, RADIO FREQUENCY : output, 2nd osc; 2 coils, each single wnd, single layer wnd; square, chromate dipped aluminum; each coil 10 turns at 14 turns per inch, left hand thd of #24 tinned copper wire; 1. 425" lg × 1. 425" wd × 1. 863" h, less term and mtg attachments; plastic form, air core; 1-9/16" lg × 0. 321" diam o/a; two 0. 8 to 7. 0 mmf var capacitors with tuning slugs; screwdriver adj in end of tuning slugs; two 0. 128" diam mtg holes diagonally spaced on 1. 062" × 1. 062" mtg/c; 4 silver pl brass term on bottom; black silk screening letters and numerals 1/8" h on bottom plate; incl 2 capacitors, one 20 mmf p/m 2 %, other 22 mmf p/m 2 %, shielded internally - Collins Rad part/dwg #505 0503 003; (incl C-421, C-422, C-424, C-425, L-407, L-408)	
V-401		ELECTRON TUBE : Same as V-301	
V-402		ELECTRON TUBE : Same as V-301	
V-403		ELECTRON TUBE : Same as V-301	
V-404		ELECTRON TUBE : Same as V-201	
XV-401		SOCKET : Same as XV-101	
XV-402	5935- 197-3 951	SOCKET, ELECTRON TUBE : 7 cont miniature; JAN type SO10M; above chassis base mtg; two 0. 125" diam mtg holes 0. 875" c to c; round mica filled phenolic body 0. 800" diam × 0. 968" lg excluding term; beryllium copper, silver pl cont; w/ 3/4" h metal shock shield, ctr shield 0. 095" ID; JAN spec JAN-S-28; - Collins Rad part/dwg #220 1069 00	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
XV-403		SOCKET : Same as XV-402	
XV-404	5935-227-8 770	SOCKET, ELECTRON TUBE : 9 cont miniature; 1 piece saddle mtg; fl mtg w/ two 0. 125" diam mtg holes spaced on 1. 125" mtg/c; cylindrical mica filled phenolic body, 46/64" max diam × 1/4" h excluding term; beryllium copper, silver pl cont; w/ metal shield, ctr shield 0. 102" ID; - Collins Rad part/dwg #220 1087 00	
XY-401 through XY-410	5935 PE-094 234	SOCKET, CRYSTAL : multiple socket for 10 xtal in type HC-6/U holders; mica filled phenolic board, silver pl phosphor bronze cont; square 1. 937" lg × 1. 937" wd × 0. 343" thk less clips; four 0. 128" diam mtg holes ctb to 0. 234" diam × 0. 156" d spaced 1. 562" × 1. 093" c to c; raised, molded-in numerals 1 through 10; fungi resistant; - Collins Rad part/dwg #292 0073 00	
Y-401	2100 PE-916 114	CRYSTAL UNIT, QUARTZ : CR-23/U; single xtal plate, holder HC-6/U; 40. 00000 mc (third overtone); minus 55°C to plus 90°C temp range; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0 745" h o/a, no air gap; - Collins Rad part/dwg #291 8708 00; MIL spec MIL-C-3098	
Y-402	2100 PE-916 113	CRYSTAL UNIT, QUARTZ : CR-23/U; single xtal plate, holder HC-6/U; 39. 00000 mc (third overtone); minus 55°C to plus 90°C temp range; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0 745" h o/a, no air gap; - Collins Rad part/dwg #291 8707 00; MIL spec MIL-C-3098	
Y-403	2100 PE-916 112	CRYSTAL UNIT QUARTZ : CR-23/U; single xtal plate, holder HC-6/U; 38. 00000 mc (third overtone); minus 55°C to plus 90°C temp range; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0 745" h o/a, no air gap; - Collins Rad part/dwg #291 8706 00; MIL spec MIL-C-3098	
Y-404	2100 PE-916 111	CRYSTAL UNIT, QUARTZ : CR-23/U; single xtal plate, holder HC-6/U; 37. 00000 mc (third overtone); minus 55°C to plus 90°C temp range; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0 745" h o/a, no air gap; - Collins Rad part/dwg #291 8705 00; MIL spec MIL-C-3098	
Y-405	2100 PE-916 110	CRYSTAL UNIT, QUARTZ : CR-23/U; single xtal plate, holder HC-6/U; 36.00000 mc (third overtone); minus 55°C to plus 90°C temp range; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap; - Collins Rad part/dwg #291 8704 00; MIL spec MIL-C-3098	
Y-406	2100 PE-916 109	CRYSTAL UNIT, QUARTZ : CR-23/U; single xtal plate, holder HC-6/U; 35. 00000 mc (third overtone); minus 55°C to plus 90°C temp range; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap; - Collins Rad part/dwg #291 8703 00; MIL spec MIL-C-3098	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
Y-407	2100 PE- 916 108	CRYSTAL UNIT, QUARTZ : CR-23/U; single xtal plate, holder HC-6/U; 34. 00000 mc (third overtone); minus 55°C to plus 90°C temp range; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap; - Collins Rad part/dwg #291 8702 00; MIL spec MIL-C-3098	
Y-408	2100 PE- 916 107	CRYSTAL UNIT, QUARTZ : CR-23/U; single xtal plate, holder HC-6/U; 33. 00000 mc (third overtone); minus 55°C to plus 90°C temp range; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap; - Collins Rad part/dwg #291 8701 00; MIL spec MIL-C-3098	
Y-409	2100 PE- 916 106	CRYSTAL UNIT, QUARTZ : CR-23/U; single xtal plate, holder HC-6/U; 32. 00000 mc (third overtone); minus 55°C to plus 90°C temp range; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap; - Collins Rad part/dwg #291 8700 00; MIL spec MIL-C-3098	
Y-410	2100 PE- 916 105	CRYSTAL UNIT, QUARTZ : CR-23/U; single xtal plate, holder HC-6/U; 31. 00000 mc (third overtone); minus 55°C to plus 90°C temp range; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap; - Collins Rad part/dwg #291 8699 00; MIL spec MIL-C-3098	
Z-401	1700- 019 379 200	SUPPRESSOR, PARASITIC : resistor and coil; 0. 531" lg × 0. 1974" diam; 28 turns of #30 enameled wire 220 ohm 1/2 w; uncased; term mtg; 2 axial wire lead term; Durez coated, impr w/ fp matl; - Collins Rad part/dwg #505 1836 002	
Z-402		SUPPRESSOR : Same as Z-401	
501-599 series		AMPLIFIER, INTERMEDIATE FREQUENCY : freq range 9. 0 mc to 9. 9 mc in 0. 1 mc increments, contains xtal osc and mixer which converts to fixed freq of 2.05 mc; power output of approx a 25 db v gain; 7-7/8" lg × 2-13/16" wd × 5-5/8" d less cable; power input of 6. 3 v AC at 0. 6 amp, plus 200 v DC at 15 ma; incl 2 tubes and 10 xtal; mtd in main rec frame and secured by captive screws; tuned by gear driven cams and clug rack; p/o Army-Navy Receiver R-278B/GR; - ACEC part/dwg #ACEC 504 9495 004, substitute for Collins Rad part/dwg 504 9495 004	
A-501		PLATE, MOUNTING : mts tube sockets, transf and connectors; chromate dipped aluminum plate, type #303 steel retainers; rectangular; 6-7/16" lg × 2. 781" wd × 3/8" thk o/a; six retainers tapped #4-40 NC-2 thd for mtg screws 0. 2875" × 2. 500" c to c; black silk screening, letters and numerals 3/32" h; retainers staked into plate; - Collins Rad part/dwg #504 9470 002	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
A-502		PLATE, FRONT : for 2nd IF amplr; chromate dipped aluminum plate, type #303 steel post; rectangular; 3. 250" lg × 2-1/16" wd × 0. 512" thk o/a; two tapped #4-40 NC-2 thd 1/4" d mtg holes spaced 0. 812" c to c on one end; black silk screening, letters and numerals 3/32" h; incl bearing and thimble for 3/16" shaft; - Collins Rad part/dwg #504 9468 002; (incl O-512, O-515)	
A-503		PLATE, BACK : for 2nd IF amplr; chromate dipped aluminum plate type #303 steel posts; rectangular; 3. 250" lg × 2-1/16" wd × 0. 512" thk; o/a; two tapped #4-40 NC-2 thd 1/4" d mtg holes spaced 0. 812" c to c on one end; black silk screening, letters and numerals 3/32" h; incl bearing and thimble for 3/16" shaft; - Collins Rad part/dwg #504 9469 002; (incl O-513, O-516)	
A-504		PLATE, BASE : for 2nd IF amplr frame; chromate dipped aluminum; 4-1/2" lg × 1-1/2" wd × 1/2" h; four 0. 141" diam mtg holes spaced 4. 250" × 0. 812" c to c on bottom; 2 fasteners pressed into plate, one on each side; - Collins Rad part/dwg #504 9471 002	
A-505		COVER, ELECTRICAL CONNECTOR : for 2nd IF amplr; anodized aluminum can; rectangular; 1. 264" lg × 1-19/64" wd × 1. 281" h o/a; 0. 375" cable opening on one side, two #6-32 NC-2 screws in cable clamp for holding cable secure; black silk screening letters and numerals 3/32" h; for 11 contacts male or female connector; - Collins Rad part/dwg #505 1739 001	
A-506		COVER : for 2nd IF amplifier; chromate dipped aluminum cover, insert, 2 sponge rubber pads; 6. 330" lg × 2. 260" wd × 2. 843" h, less mtg brackets; two parallel 4-15/16" lg × 0. 406" wd mtg brackets on bottom of cover, one 0. 141" diam mtg hole in each bracket 0. 437" from end; black silk screening letters and numerals 3/32" h; three #4-40 tapped inserts staked into cover one on each side, schematic diagram stamped Collins Rad part/dwg #506 3997 003; - Collins Rad part/dwg #505 8459 002	
C-501		CAPACITOR, FIXED, CERAMIC DIELECTRIC : 39 mmf p/m 2 %; neg temp coef 80 (tol plus 60) mmf/mf/°C; 500 vdcw; 0. 460" × 0. 240" diam case; radial wire leads; ins body; Durez dip #9841, varnish impr, fungi resistant; - Collins Rad part/dwg #928 4671 00; (p/o T-501 Next Higher Assembly)	
C-502		CAPACITOR, FIXED, CERAMIC DIELECTRIC : 39 mmf p/m 2 %; temp coef minus 30 (tol plus 60) mmf/mf/°C; 500 vdcw; 0. 460" × 0. 240" diam case; radial wire leads; ins body; Durez dip #9841, varnish impr, fungi resistant; - Collins Rad part/dwg #928 4628 00; (p/o T-501 Next Higher Assembly)	
C-503		CAPACITOR, FIXED, CERAMIC DIELECTRIC : 47 mmf p/m 2 %; neg temp coef 80 (tol plus 60) mmf/mf/°C; 500 vdcw; 0. 460" 0. 240" diam case; radial wire leads; ins body; Durez dip #9841, varnish impr, fungi resistant; - Collins Rad part/dwg #928 4681 00; (p/o T-501 Next Higher Assembly)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
C-504		CAPACITOR, FIXED CERAMIC DIELECTRIC : 47 mmf p/m 2 %; neg temp coef 150 (tol plus 60) mmf/mf/°C; 500 vdcw; 0. 460" × 0. 240" diam case; radial wire leads; ins body; Durez dip #9841, varnish impr, fungi resistant ; - Collins Rad part/dwg #928 4873 00 ; (p/o T-501 Next Higher Assembly)	
C-505		CAPACITOR : Same as C-503 (p/o T-502 Next Higher Assembly)	
C-506		CAPACITOR : Same as C-503 (p/o T-502 Next Higher Assembly)	
C-507		CAPACITOR : Same as C-503 (p/o T-502 Next Higher Assembly)	
C-508		CAPACITOR : Same as C-503 (p/o T-502 Next Higher Assembly)	
C-509	3330-376 144 024	CAPACITOR, FIXED, MICA DIELECTRIC : 300 vdcw; 10,000 mmf ± 10 % tol; temp coef letter B; ins molded case; 53/64" lg, 53/64" wd, 11/32" thk; 2 term axial wire lead type, 0. 040" diam tinned wire, 1-1/8" lg min; - Collins Rad part/dwg #935 2117 00; JAN spec JAN-C-5, type CM35B103K	
C-510	3330 PE-960 613	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 47 mmf ± 2 % tol; temp coef 0; pos tol 60 mmf/mf/°C; style 1, Ref Dwg Group 1; ins body; 0. 550" lg, 0. 315" diam; 2 term radial wire lead type; 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; - ACEC part/dwg #ACEC 928 4361 00; substitute for Collins Rad part/dwg #928 4361 00	
C-511	3330-376 034 800	CAPACITOR, FIXED, MICA DIELECTRIC : 500 vdcw; 470 mmf ± 10 % tol; temp coef letter B; ins molded case; 51/64" lg,, 15/32" wd, 7/32" thk; 2 term axial wire lead type, 0. 032" diam tinned wire, 1-1/8" lg min; - Collins Rad part/dwg # 935 0134 00; JAN spec JAN-C-5, type CM20B471K	
C-512		CAPACITOR : Same as C-511	
C-513		CAPACITOR : Same as C-509	
C-514		CAPACITOR : Same as C-510	
C-515	3330-376 002 000	CAPACITOR, FIXED, MICA DIELECTRIC : 500 vdcw; 100 mmf ± 10 % tol; temp coef letter B; ins molded case; 51/64" lg, 15/32" wd, 7/32" thk; 2 term axial wire lead type, 0. 032" diam tinned wire, 1-1/8" lg min; - Collins Rad part/dwg #935 0106 00; JAN spec JAN-C-5, type CM20B101K	
C-516	3330-055 350 209	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 20 mmf ± 2 % tol; temp coef -80 mmf/mf/°C; pos tol 60 mm/mf/°C; style 1, Ref Dwg Group 1; ins body; 0. 435" lg × 0. 200" diam; 2 term radial wire lead type 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; - Collins Rad part/dwg # 928 0540 00	
C-517		CAPACITOR : Same as C-509	
C-518		CAPACITOR : Same as C-204	
C-519		CAPACITOR : Same as C-204	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
C-520	3330 PE- 960 606	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 1. 5 mmf ± 1/4 mmf tol; temp coef -330 mmf/mf/°C; pos tol 250 mmf/mf/°C; style 1, Ref Dwg Group 1; ins body; 0. 435" lg, 0. 200" diam; 2 term radial wire lead type; 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; ACEC part/dwg #ACEC 928 0627 00; substitute for Collins Rad part/dwg #928 0627 00	
C-521		CAPACITOR : Same as C-520	
E-501		CAP : Same as E-101	
E-502		CAP : Same as E-201	
E-503		TERMINAL : Same as E-103	
E-504		TERMINAL : Same as E-103	
E-505		TERMINAL : Same as E-103	
E-506		CORE, ADJUSTABLE TUNING : for permeability tuning; powdered iron core, silver pl bass stud; freq range 9 mc to 9. 9 mc; ambient temp mius 55°C to plus 85°C; cylindrical; 2. 312" lg × 0. 200" OD; #8-32 NC-2 thd 13/16" lg; 3/64" lg; 3/64" wd × 3/32" d slot in end of stud for tuning, bronze lead of core soldered 1/2 lg of slot; - Collins Rad part/dwg #504 9473-002	
E-507		CORE : Same as E-506	
E-508		CORE : Same as E-506	
E-509		CORE : Same as E-506	
E-510		INSULATOR : Same as E-418	
E-511		Not Used	
E-512		Not Used	
E-513		Not Used	
E-514		Not Used	
E-515		Not Used	
E-516		TERMINAL : Same as E-103	
H-501		SCREW : Same as H-401 (6 each used)	
H-502		RING : Same as H-402 (2 each used)	
H-503		CLAMP : Same as H-419	
H-504		NUT, PLAIN, HEXAGON : steel, cad pl; #6-32 NC-2; 3/32" thk; 1/4" wd across flats; double chamfered; - Collins Rad part/dwg #313 0116 00	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-505		SCREW : Same as H-425 (22 each used)	
H-506		SCREW : Same as H-426 (2 each used)	
H-507		Not Used	
H-508		SCREW, MACHINE : Phillips drive, recessed pan head; unfinished. cold headed; steel, cad pl; #6-32 NC-2; 7/16 lg'' lg; threaded to head; 0. 270'' diam × 0. 097'' thk; - Collins Rad part/dwg #343 0495 00	
H-509		Not Used	
H-510		WASHER : Same as H-413 (33 each used)	
H-511		WASHER, LOCK : steel, cad pl; round, 0. 145'' ID, 0. 245'' OD, 0. 0312'' thk; #6 spring type lock; - Collins Rad part/dwg #310 3260 00	
H-512		TERMINAL : Same as H-113 (6 each used)	
H-513		NUT : Same as H-430 (8 each used)	
H-514		SCREW : Same as H-412 (9 each used)	
H-515		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; brass, nickel pl; #3-56 NC-2; 1/4'' lg; threaded to head; head 0. 193'' diam × 0. 071'' thk; - Collins Rad part/dwg #343 1565 00	
H-516		WASHER : Same as H-230 (4 each used)	
H-517		WASHER : Same as H-434	
H-518		NUT : Same as H-204	
H-519		COLLAR, SPACING : spaces connector from chassis; chromate dipped aluminum; round; 1/2'' OD, 3/16'' thk; mtd by connector passing through 0. 451'' ID; - Collins Rad part/dwg #504 9520 002; (2 each used)	
H-520		COLLAR, SPACING : :spaces rack from rear plate; type #303 steel; round; 7-16'' OD × 0. 112'' thk o/a; 0. 191'' ID for shaft mtg; - Collins Rad part/dwg #504 9449 001	
H-521		WASHER : Same as H-406 (2 each used)	
H-522		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished, cold headed; cad pl steel; #2-56 NC-2; 1/4'' lg; threaded to head; 0. 176'' diam × 0. 165'' thk head; - Collins Rad part/dwg #343 0456 00 (2 each used)	
H-523		RING : Same as H-411 (2 each used)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-524		WASHER : Same as H-242 (2 each used)	
H-525		Not Used	
H-526		WASHER : Same as H-421 (6 each used)	
H-527		WASHER : Same as H-224 (6 each used)	
H-528		SCREW : Same as H-428 (2 each used)	
H-529		POST, SPACING : spaces xtal socket from back plate; anodized aluminum; cylindrical; 0. 718'' lg, 3/16'' across flats; single tapped mtg hole #4-40 NC-2 thd; - Collins Rad part/dwg #505 0928 002; (for each used)	
H-530		Not Used	
H-531		SCREW : Same as H-121 (2 each used)	
H-532		NUT, HEXAGON : steel, cad pl, chamfered corners on bearing surface; #4-40 NC-2; 1/16'' thk; 3/16'' wd across flats; double chamfered; - Collins Rad part/dwg #313 0139 00 (2 each used)	
H-533		Not Used	
H-534		PIN : Same as H-405, (3 each used)	
H-535		POST, SPACING : brass, cad pl; 3/16'' hex × 0. 312'' lg; both ends tapped #4-40 NC-2, 1/2'' d for mtg; - Collins Rad part/dwg #500 6217 001; (2 each used)	
H-536		WASHER : Same as H-106 (6 each used)	
H-537		WASHER : Same as H-439 (3 each used)	
H-538		WASHER, LOCK : SS, plain finish; round, 0. 088'' ID, 0. 152'' OD, 0. 022'' thk; #2 split lock; - Collins Rad part/dwg #310 0034 00; (2 each used)	
H-539		WASHER, FLAT : :nickel pl brass, round, 0. 093'' ID, 0. 250'' OD, 0. 028'' thk; - Collins Rad part/dwg #310 0053 00; (2 each used)	
H-540		NUT : Same as H-204 (2 each used)	
H-541		WASHER : Same as H-440 (6 each used)	
J-501		Not Used	
J-502		CONNECTOR : Same as J-402	
J-503		CONNECTOR : Same as J-402	
J-504		CONNECTOR : Same as J-405	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
J-505	5935 PE- 092 314	CONNECTOR, RECEPTACLE, ELECTRICAL : Navy type UG-290/U; single round female pol cont; straight; 1-1/16" lg × 11/16" wd × 11/16" d o/a; cylindrical metal body; phenolic insert; cable opening 0. 330" diam; metal mtg fl w/ four #3-56NF-2 tapped holes on 0. 500" × 0. 500" mtg/c; - Collins Rad part/dwg #357 9054 00; Navy dwg RE 49F331	
L-501		COIL, RF : RF transformer; single wnd, single layer wnd; unshielded; 23 turns of #26 wire; 1-13/32" lg × 0. 4120" diam o/a; plastic form resin core; coil form, 1-13/32" lg × 0. 375" max OD; 2 radial wire leads 1" lg approx; 2 retaining ring term spaced 0. 688" apart; - Collins Rad part/dwg #504 9455 002; (p/o T-501 Next Higher Assembly	
N-501		PLATE, INSTRUCTION : 2nd IF ampl schematic, R-278B/GR; aluminum; rectangular; 3-1/2" lg × 2-5/8" wd × 0. 031" thk o/a; four 0. 106" diam holes spaced on 3.250" × 2. 375" mtg/c; black background w/low gloss anodized aluminum lines and characters; - Collins Rad part/dwg #506 3997 003	
L-502		COIL : Same as L-501 (p/o T-501 Next Higher Assembly)	
L-503		COIL : Same as L-501 (p/o T-502 Next Higher Assembly)	
L-504		COIL : Same as L-501 (p/o T-502 Next Higher Assembly)	
L-505	3340- 060 702 010	COIL, RF : choke; single wnd, 3 pie universal wnd; unshielded 500 uh p/m 10 % at 1000 kc; 112 turns ea pie #36 nylon enamel; 1/2" lg × 3/8" diam; powdered iron form; 1/2" × 1/8" diam form; two 1-3/8" pigtails; wire lead gnd to pigtail; - Collins Rad part/dwg 240 0073 00	
L-506		COIL, RF : Same as L-505	
L-507		COIL, RF : Same as L-406	
O-501		SPRING : Same as O-404	
O-502		SPRING : Same as O-404	
O-503		SPRING : Same as O-404	
O-504		SPRING : Same as O-404	
O-505		FOLLOWER : Same as O-410	
O-506		FOLLOWER : Same as O-410	
O-507		BAR, SPACE : spaces front and rear plates, mtg for one end of springs; chromate dipped aluminum; cylindrical; 3/16" diam × 4. 062" lg; two tapped #4-40 NC-2 thd 3/16" d mtg holes, one on each end; - Collins Rad part/dwg #504 9444 001	
O-508		BAR : Same as O-507	
O-509		SPRING : Same as O-416	
O-510		SPRING : Same as O-416	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-511		CAMSHAFT : raises or lowers slug tuning rack; c/o collar, hub and 2 cams mtd on shaft; SS; 1" max diam × 5. 250" lg; supported by 2 oilite bearings; four 0. 064" diam holes, one in each cam, one in collar and one in hub; - Collins Rad part/dwg #504 9484 003; (c/o O-518, O-519, O-520, O-521)	
O-512		BEARING : Same as O-414 (p/o A-502)	
O-513		BEARING : Same as O-414 (p/o A-503)	
O-514		FRAME : tuning rack for 2nd IF amplr; brass, ternary pl (copper, tin, zinc) frame, type #303 steel shafts; 4" lg × 1-1/4" wd × 2. 140" h o/a; two 0. 195" wd × 1-1/2" lg slots one on ea end, for mtg; black silk screening letters and numerals 3/32" h; incl 4 nuts on top and 2 cam follower shafts, one on each end; - Collins Rad part/dwg #504 9461 002	
O-515		RETAINER : Same as O-457 (p/o A-502)	
O-516		RETAINER : Same as O-457 (p/o A-503)	
O-517		BUSHING : Same as O-465	
O-518		SHAFT : raises and lowers slug tuning rack; type #303 steel; cylindrical; 5. 219" lg × 0. 243" max OD; 2 grooves 0. 029" wd × 0. 148" diam for retaining rings; collar 0. 242" max diam × 0. 375" lg; - Collins Rad part/dwg #505 2311 002; (p/o O-511)	
O-519		HUB : Same as O-443 (p/o O-511)	
O-520		CAM : rear, 2nd IF amplr; type #302 steel tuning cam, type #303 steel hub; 25/32" max diam × 0. 2495" thk o/a; 0. 1879" ID for shaft mtg; hub pressed into cam; - Collins Rad part/dwg #504 9466 002; (p/o O-511)	
O-521		CAM : front, 2nd IF amplr; type #302 steel tuning cam, type #303 steel hub; 25/32" max diam × 0. 2495" thk o/a; 0. 1879" ID for shaft mtg; hub pressed into cam; - Collins Rad part/dwg #504 9467 002; (p/o O-511)	
P-501		CONNECTOR : Same as P-101	
P-502		CONNECTOR : Same as P-402	
R-501		RESISTOR : Same as R-106	
R-502	3350- 101 000-6 431	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2: 820,000 ohms p/m 10 % tol; 1/2 w power disispation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1209 00; JAN spec JAN-R-11, type RC20BF824K; for general purpose use	
R-503		RESISTOR : Same as R-202	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
R-504	3350- 131 000-6 151	RESISTOR, FIXED, COMPOSITION : body style #3, Ref dwg Group 2 : 33,000 ohms p/m 10 % tol; 1 w power dissipation; temp characteristic letter F; 0. 750" lg × 0. 280" diam max; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 3149 00; JAN spec JAN-R-11, type RC30FB333K; for general purpose use	
R-505	5905 PE- 971 714	RESISTOR, FIXED, COMPOSITION : body style #3, Ref dwg Group 2 : 2,200 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg 745 1100 00; JAN spec JAN-R-11, type RC20BF222K; for general purpose use	
R-506		RESISTOR : Same as R-106	
R-507	5905 PE- 971 706	RESISTOR, FIXED, COMPOSITION : body style #3, Ref dwg Group 2 : 220 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1058 00; JAN spec JAN-R-11, type RC20BF221K; for general purpose use	
R-508		RESISTOR : Same as R-302	
R-509	3350- 131 000-4 131	RESISTOR, FIXED, COMPOSITION : body style #3, Ref dwg Group 2 : 2. 700 ohms p/m 10 % tol; 1 w power dissipation; temp characteristic letter F; 0. 750" lg × 0. 280" diam max; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 3104 00; JAN spec JAN-R-11, type RC30BF272K; for general purpose use	
R-510	5905 PE- 971 727	RESISTOR, FIXED, COMPOSITION : body style #3, Ref dwg Group 2 : 47,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1156 00; JAN spec JAN-R-11, type RC20BF473K; for general purpose use	
R-511		RESISTOR : Same as R-103	
S-501	~~1700-~~ ~~019 253 220~~ 3360 PE 978 316	SWITCH SECTION, ROTARY : for 10 position rotary sw; glass bonded mica, coin silver alloy rotor, spring silver alloy cont, silver pl brass rotor guide ring; 1 pole, 10 position, flat, 1.299" diam × 0. 123" thk o/a; 2 mtg holes to pass #4 screw, 1. 031" c to c; ctr hole 0. 186" wd × 0. 250" lg for shaft mtg; - ACEC part/dwg #ACEC 269 1334 00, substitute for Collins Rad part/dwg 269 1334 00	
T-501	3340- 064 500 020	TRANSFORMER, VARIABLE, RADIO FREQUENCY : osc; 2 coils, each single wnd, single layer wnd; rectangular, chromate dipped aluminum can; 23 turns at 36 turns per inch of #26 magnet wire on each coil; 1. 6250" lg × 1. 218" wd × 1-23/32" h less term and mtg attachments; plastic tubing form, air core; 0. 375" OD × 1-13/32" lg form; adj iron core (not incl); two #4-40 NC-2 threaded studs located diagonally on 1. 125" × 0. 688" mtg/c on bottom; four silver pl brass term protruding from bottom; black silk screening 3/32" h numerals 1 through 4 on bottom plate; inc 4 capaci-	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
		tors, 2, 39 mmf p/m 2 %, 2, 47 mmf p/m 2%, moisture and fungi resistant; - Collins Rad part/dwg #504 9485 003; (c/o C-501, C-502, C-503, C-504, L-501, L-502)	
T-502	3340- 064 500 010	TRANSFORMER, VARIABLE, RADIO FREQUENCY : osc; 2 coils, each single wnd, single layer wnd; rectangular, chromate dipped aluminum can; 23 turns at 36 turns per inch of #26 magnet wire on each coil; 1. 6250" lg × 1. 218" wd × 1-23/32" h less term and mtg attachments; plastic tubing form, air core; 0. 375" OD × 1-13/32" lg form; adj iron core (not inc); two #4-40 NC-2 threaded studs located diagonally on 1. 125" × 0. 688" mtg/c on bottom; four silver pl brass term protruding from bottom; black silk screening 3/22" h, numerals 1 through 4 on bottom plate; inc four 47 mmf p/m 2 % capacitors, moisture and fungi resistant; - Collins Rad part/dwg #504 9489 003; (c/o C-505, C-506, C-507, C-508, L-503, L-504)	
V-501	5960 PE- 981 154	ELECTRON TUBE : sharp-cutoff pentode; glass envelope, miniature, 7 terminations, pin type, JAN type 6AU6WA; - Collins Rad part/dw #254 0879 00; MIL spec MIL-E-1B	
V-502	5960- 166-7 663	ELECTRON TUBE : medium-mu twin triode; glass envelope, miniature, 9 terminations, pin type; JAN type 12AU7; - Collins Rad part/dwg #254 0792 00; MIL spec MIL-E-1B	
XV-501		SOCKET : Same as XV-402	
XV-502		SOCKET : Same as XV-404	
XY-501 through XY-510		SOCKET : Same as XY-401 through XY-410	
Y-501	2100 PE- 916 095	CRYSTAL UNIT, QUARTZ : CR-18/U; single xtal plate, holder HC-6/U; 6950.000 kc; temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap adj, pl wire mtg; - Collins Rad part/dwg #291 8103 00; MIL spec MIL-C-3098	
Y-502	2100 PE- 916 096	CRYSTAL UNIT, QUARTZ : CR-18/U; single xtal plate, holder HC-6/U; 7050.000 kc; temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap adj; pl wire mtg; - Collins Rad part/dwg #291 8104 00; MIL spec MIL-C-3098	
Y-503	2100 PE- 916 097	CRYSTAL UNIT, QUARTZ : CR-18/U; single xtal plate, holder HC-6/U; 7150.000 kc; temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap adj; pl wire mtg; - Collins Rad part/dwg #291 8105 00; MIL spec MIL-C-3098	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
Y-504	2100 PE- 916 098	CRYSTAL UNIT, QUARTZ : CR-18/U; single xtal plate, holder HC-6/U; 7250.000 kc; temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap adj; pl wire mtg; - Collins Rad part/dwg #291 8106 00; MIL spec MIL-C-3098	
Y-505	2100 PE- 916 099	CRYSTAL UNIT, QUARTZ : CR-18/U; single xtal plate, holder HC-6/U; 7350.000 kc; temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap adj; pl wire mtg; - Collins Rad part/dwg #291 8107 00; MIL spec MIL-C-3098	
Y-506	2100 PE- 916 100	CRYSTAL UNIT, QUARTZ : CR-18/U; single xtal plate, holder HC-6/U; 7450.000 kc; temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap adj; pl wire mtg; -Collins Rad part/dwg #291 8108 00; MIL spec MIL-C-3098	
Y-507	2100 PE- 916 101	CRYSTAL UNIT, QUARTZ : CR-18/U; single xtal plate, holder HC-6/U; 7550.000 kc; temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap adj; pl wire mtg; - Collins Rad part/dwg #291 8109 00; MIL spec MIL-C-3098	
Y-508	2100 PE- 916 102	CRYSTAL UNIT, QUARTZ : CR-18/U; single xtal plate, holder HC-6/U; 7650.000 kc; temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap adj; pl wire mtg; - Collins Rad part/dwg # 291 8110 00; MIL spec MIL-C-3098	
Y-509	2100 PE- 916 103	CRYSTAL UNIT, QUARTZ : CR-18/U; single xtal plate, holder HC-6/U; 7750.000 kc; temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap adj; pl wire mtg; - Collins Rad part/dwg #291 8111 00; MIL spec MIL-C-3098	
Y-510	2100 PE- 916 104	CRYSTAL UNIT, QUARTZ : CR-18/U; single xtal plate, holder HC-6/U; 7850.000 kc; temp range minus 55°C to plus 90°C; 2 pins on bottom spaced 0. 486" c to c, solid pins 0. 050" diam × 0. 243" lg, oval metal body 0. 750" lg × 0. 345" wd × 0. 745" h o/a, no air gap adj; pl wire mtg; - Collins Rad part/dwg #291 8112 00; MIL spec MIL-C-3098	
601-699 series		AMPLIFIER, INTERMEDIATE FREQUENCY : 2. 05 mc; power output approx 0. 4 v audio across 2200 ohm, has AVC v output and direction finder output, approx gain thru 3rd IF 70 db; 9-1/2" lg × 5. 3205" wd × 4. 3585" d less cable; power input 6. 3 v AC at 2. 7 amp, plus 200 v DC at 50 ma, plus 150 v DC at 8 ma, minus	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
		45 v DC neg bias; incl 9 tubes; mtd in main rec frame and secured by captive screws; contains IF stages audio detector, AVC detector, AVC gate, noise limiter (shunt plus series), infinite impedance detector, squelch ckt, audio amplr and direction finder cathode follower; may be used with AN/CRD-6 Direction Finding Equipment; - ACEC part/dwg #505 5818 005, substitute for Collins Rad part/dwg #505 5818 005	
A-601		CHASSIS : amplifier; aluminum, chromate dipped; rectangular; 9-1/2" lg × 4-9/16" wd × 1-11/16" h o/a; eight tapped inserts riveted to chassis for mtg; stamped or silk screened black letters and numerals 3/32" h on top and bottom; four posts and one eyelet, riveted securely to chassis; - ACEC part/dwg #ACEC 505 5805 004, substitude for Collins Rad part/dwg #505 5805 004	
A-602		COVER : 3rd IF amplifier; anodized aluminum 0. 040" thk; rectangular; 9-5/16" lg x 4-3/8" wd x 0. 072" thk o/a; eight 0. 147" diam holes for mtg irregularly spaced around edge of cover; schematic plate reverse etch w/ black background and low gloss anodized aluminum lines and characters; schematic plate 7-5/16" lg × 3-1/4" wd riveted to cover; - Collins Rad part/dwg #505 5799 003	
A-603		COVER, ELECTRICAL, CONNECTOR : for 20 plug connector; anodized aluminum; 2-1/16" lg × 1. 945" wd × 0. 758" thk o/a; 2 holes on inside tapped #4-40 NC-2 spaced 1. 620" c to c; 2 cad pl steel cable clamp screws tapped #4-40 NC-2, 13/32" diam hole at bottom for cable opening; - Collins Rad part/dwg #505 1458 001	
C-601		CAPACITOR, FIXED, CERAMIC DIELECTRIC : 39 mmf p/m 2 %; neg temp coef 220 (pos tol 60) mmf/mf/°C; 500 vdcw; 0. 460" lg × 0. 240" diam case; radial wire leads; ins body, varnish impr, fungi resistant; - Collins Rad part/dwg #928 4757 00; (p/o T-601 Next Higher Assembly)	
C-602		CAPACITOR, FIXED, CERAMIC DIELECTRIC : 100 mmf p/m 2 %; neg temp coef 30 (tol plus 30) mmf/mf/°C; 500 vdcw; 0. 860" lg × 0. 250" diam case; radial wire leads; ins body; Durez dip #9841, varnish impr, fungi resistant; - Collins Rad part/dwg #928 7255 00; (p/o T-601 Next Higher Assembly)	
C-603		CAPACITOR, FIXED, CERAMIC DIELECTRIC : 100 mmf p/m 2 %; neg temp coef 80 (tol plus 30 minus 91) mmf/mf°C; 500 vdcw; 0. 900" lg × 0. 290" diam case; radial wire leads; ins body; Durez dip #9841, varnish impr, fungi resistant; - Collins Rad part/dwg #928 7135 00; (p/o T-601 Next Higher Assembly)	
C-604		CAPACITOR, FIXED, CERAMIC DIELECTRIC : 100 mmf p/m 2 %; neg temp coef 150 (tol plus 30) mmf/mf/°C; 500 vdcw; 0. 900" lg × 0. 290" diam case; radial wire leads; ins body; Durez dip #9841, varnish impr, fungi resistant; - Collins Rad part/dwg #928 7185 00; (p/o T-601 Next Higher Assembly)	
C-605		CAPACITOR : Same as C-603 (p/o T-602 Next Higher Assembly)	
C-606		CAPACITOR : Same as C-604 (p/o T-602 Next Higher Assembly)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
C-607		CAPACITOR : Same as C-603 (p/o T-602 Next Higher Assembly)	
C-608		CAPACITOR : Same as C-604 (p/o T-602 Next Higher Assembly)	
C-609		CAPACITOR : Same as C-603 (p/o T-603 Next Higher Assembly)	
C-610		CAPACITOR : Same as C-604 (p/o T-603 Next Higher Assembly)	
C-611		CAPACITOR : Same as C-603 (p/o T-603 Next Higher Assembly)	
C-612		CAPACITOR : Same as C-604 (p/o T-603 Next Higher Assembly)	
C-613	3330 PE-960 603	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 4 mmf ± 1/2 mmf tol; temp coef 0; pos tol 60 mmf/mf/°C; style 1, Ref Dwg Group 1; ins body; 0. 435" lg × 0. 200" diam; 2 term radial wire lead type; 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; - ACEC part/dwg #ACEC 928 0114 00, substitue for Collins Rad part/dwg #928 0114 00	
C-614		CAPACITOR : Same as C-604 (p/o T-604 Next Higher Assembly)	
C-615		CAPACITOR : Same as C-603 (p/o T-604 Next Higher Assembly)	
C-616		CAPACITOR : Same as C-604 (p/o T-604 Next Higher Assembly)	
C-617		CAPACITOR : Same as C-603 (p/o T-604 Next Higher Assembly)	
C-618		CAPACITOR : Same as C-509	
C-619		CAPACITOR : Same as C-420	
C-620		CAPACITOR : Same as C-511	
C-621		CAPACITOR : Same as C-509	
C-622		CAPACITOR : Same as C-509	
C-623	3330-055 475 322	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 30 mmf ± 5 %; temp coef —80 mmf/mf/°C; pos tol 60 mmf/mf/°C; style 1, Ref Dwg Group 1; ins body; 0. 710" lg × 0. 280" diam; 2 term radial wire lead type 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; - Collins Rad part/dwg #928 4657 00	
C-624		CAPACITOR : Same as C-511	
C-625		CAPACITOR : Same as C-509	
C-626		CAPACITOR : Same as C-509	
C-627		CAPACITOR : Same as C-509	
C-628		CAPACITOR : Same as C-509	
C-629		CAPACITOR : Same as C-428	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
C-630	3330 PE-962 193	CAPACITOR, FIXED, PAPER DIELECTRIC : 1 section; 100 vdcw; 0. 22 mf ± 20 % tol; high temp impr type; style #18, Ref Dwg Group 1; tubular metallic non-magnetic case; HS; one end gnd; 0. 984" lg, 0. 579" diam; 2 term; #20AWG axial wire lead type; 1-1/2" lg; mtg facilities not incl; - ACEC part/dwg #931 0793 00, substitute for Collins Rad part/dwg #931 0793 00	
C-631		CAPACITOR : Same as C-509	
C-632	3330-055 950 091	CAPACITOR, FIXED, MICA DIELECTRIC : 500 vdcw; 220 mmf ± 5 % tol; temp coef letter B; ins molded case; 51/64" lg, 15/32" wd, 7/32" thk; 2 term axial wire lead type, 0. 032" diam tinned wire, 1-1/8" lg min; - Collins Rad part/dwg #935 0119 00; JAN spec JAN-C-5, type CM20B221J	
C-633		CAPACITOR : Same as C-509	
C-634	3330-318 001 344	CAPACITOR, FIXED, PAPER DIELECTRIC : 2 similar sections, 600 vdcw; 0. 25 mf ± 15 % tol; temp coef letter E; one end gnd; HS metallic, non-magnetic case; 1-5/16" lg × 49/64" wd × 2" h except term; two solder lug term, 3/4" max lg, 5/8" c to c, on bottom side; accom mtg bkt; - Collins Rad part/dwg #961 7153 00; JAN spec JAN-C-25, type CP61B6EF254L	
C-635	3330-376 798 515	CAPACITOR, FIXED, MICA DIELECTRIC : 500 vdcw ; 2,200 mmf ± 10 % tol; temp coef letter B; ins molded case; 53/64" lg, 53/64" wd, 11/32" thk; 2 term axial wire lead type, 0. 040" diam tinned wire, 1-1/8" lg min; - Collins Rad part/dwg #935 2089 00; JAN spec JAN-C-5, type CM35B222K	
C-636		CAPACITOR : Same as C-509	
C-637		CAPACITOR : Same as C-511	
C-638	3330-057 251 005	CAPACITOR, FIED, PAPER DIELECTRIC : 1 section; 100 vdcw; 0. 47 mf ± 20 % tol; high temp impr type; style #18, Ref Dwg Group 1; tubular metallic non-magnetic case; HS; one end gnd; 1-1/16" lg, 0. 562" diam; 2 term, #20AWG axial wire lead type, 1-1/2" lg; mtg facilities not incl; - Collins Rad part/dwg #931 0795 00	
C-639		CAPACITOR : Same as C-509	
C-640		CAPACITOR : Same as C-420	
C-641		CAPACITOR : Same as C-301	
C-642		CAPACITOR : Same as C-509	
C-643	3330-376 150 800	CAPACITOR, FIXED, MICA DIELECTRIC : 500 vdcw; 4,700 mmf ± 10 % tol; temp coef letter B; ins molded case; 53/64" lg, 53/64" wd, 11/32" thk; 2 term axial wire lead type, 0. 040" diam tinned wire, 1-1/8" lg min; - Collins Rad part/dwg #935 2103 00; JAN spec JAN-C-5, type CM35B472K	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
C-644	3330 PE- 962 194	CAPACITOR, FIED, PAPER DIELECTRIC : 1 section; 100 vdcw; 0. 10 mf ± 20 % tol; high temp impr type; style #18, Ref Dwg Group 1; tubular metallic non-magnetic case; HS; both ends floating; 0. 905" lg, 0.400" diam; 2 term; #22AWG axial wire lead type; 1-1/2" lg; mtg facilities not incl; - ACEC part/dwg #ACEC 931 0883 00, substitute for Collins Rad part/dwg #931 0883 00	
C-645		CAPACITOR : Same as C-511	
C-646		CAPACITOR : Same as C-509	
C-647	3330 PE- 962 195	CAPACITOR, FIXED, PAPER DIELECTRIC : 1 section; 100 vdcw; 0. 22 mf ± 20 % tol; high temp impr type; style #18, Ref Dwg Group 1; tubular metallic non-magnetic case; HS; both ends floating; 1. 100" lg, 0. 578" diam; 2 term; #20AWG axial wire lead type; 1-1/2" lg; mtg facilities not incl; - ACEC part/dwg #ACEC 931 0885 00, substitute for Collins Rad part-dwg #931 0885 00	
C-648		CAPACITOR : Same as C-644	
C-649	3330- 055 350 344	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 15 mmf ± 5 % tol; temp coef −80 mmf/mf/°C; pos tol 60 mmf/mf/°C, neg tol 130 mmf/mf/°C; style 1, Ref Dwg Group 1; ins body; 0. 435" lg × 0. 200" diam; 2 term radial wire lead type 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; - Collins Rad part/dwg #928 0211 00	
C-650		CAPACITOR : Same as C-515	
C-651	3330- 055 475 046	CAPACITOR, FIXED, CERAMIC DIELECTRIC : 500 vdcw; 2. 0 mmf ± 1/4 mmf tol; temp coef 0; pos tol 250 mmf/mf/°C; style 1, Ref Dwg Group 1; ins body; 0. 435" lg × 0. 200" diam; 2 term radial wire lead type, 0. 032" or 0. 025" diam tinned wire, 1-1/4" lg min; - Collins Rad part/dwg #928 0075 00	
C-652		CAPACITOR : Same as C-649	
E-601		CAP : Same as E-101	
E-602		CAP : Same as E-101	
E-603		CAP : Same as E-101	
E-604		CAP : Same as E-301	
E-605		CAP : Same as E-301	
E-606		CAP : Same as E-201	
E-607		CAP : Same as E-201	
E-608		CAP : Same as E-201	
E-609		CAP : Same as E-101	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
E-610		BRACKET MOUNTING : JAN type #CP06SA4; u/w CP61 capacitors; non-magnetic material, hot tin dipped or cad pl; 1-11/32" lg × 49/64" wd × 2" h; mtd by 2 studs threaded #6-32 NC-2 spaced 1-3/16" c to c JAN spec JAN-C-25; - Collins Rad part/dwg #139 0118 00	
E-611		TERMINAL : Same as E-103	
E-612	8880- 850 000-7 455	TERMINAL, STUD : molded melamine body, terminal brass, tin dipped, insert brass, cad pl; round post shape; 0. 788" lg o/a; 0. 576" lg less term, 1/4" hex; #4-40 NC-2 tapped 5/32" d one end, slotted solder lug other end; - Collins Rad part/dwg #306 0233 00	
E-613		TERMINAL : Same as E-612	
E-614		TERMINAL : Same as E-103	
E-615		TERMINAL : Same as E-612	
E-616		TERMINAL : Same as E-612	
E-617		TERMINAL : Same as E-103	
E-618		TERMINAL : Same as E-612	
E-619		TERMINAL : Same as E-103	
E-620		TERMINAL : Same as E-103	
E-621		TERMINAL : Same as E-103	
E-622		TERMINAL : Same as E-103	
E-623		TERMINAL : Same as E-612	
E-624		TERMINAL : Same as E-103	
E-625		TERMINAL : Same as E-103	
E-626		TERMINAL : Same as E-612	
E-627		TERMINAL : Same as E-612	
E-628		TERMINAL : Same as E-103	
E-629		TERMINAL : Same as E-103	
E-630		TERMINAL : Same as E-103	
E-631		TERMINAL : Same as E-103	
E-632		TERMINAL : Same as E-103	
E-633		TERMINAL : Same as E-612	
E-634		TERMINAL : Same as E-103	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
E-635		TERMINAL : Same as E-103	
E-636		TERMINAL : Same as E-103	
E-637		TERMINAL : Same as E-103	
E-638		TERMINAL : Same as E-103	
E-639		TERMINAL : Same as E-103	
E-640		TERMINAL : Same as E-103	
H-601		SCREW, CAPTIVE : Phillips drive; Bind H; type #430 SS; #8-32 NC-2; 2" lg; threaded 1-3/8" lg, also threaded 3/16" lg under head; head 0. 321" diam × 0. 115" thk; red head; - Collins Rad part/dwg #505 0828 002; (4 each used)	
H-602		WASHER : Same as H-105 (4 each used)	
H-603		SCREW : Same as H-121 (2 each used)	
H-604		TERMINAL : Same as H-113 (19 each used)	
H-605		NUT, PLAIN, HEXAGON : steel, cad pl; #6-32; 0. 114" max thk; 0. 3125" max wd across flats; for machine screw; - Collins Rad part/dwg #313 0049 00 (3 each used)	
H-606		NUT : Same as H-430 (26 each used)	
H-607		SCREW : Same as H-425 (18 each used)	
H-608		WASHER, LOCK : cad pl phosphor bronze; round 3/8" ID, 11/16" OD, 0. 035" thk; shakeproof type, tw int teeth; - Collins Rad part/dwg #373 3070 00; (6 each used)	
H-609		WASHER : Same as H-413 (70 each used)	
H-610		WASHER : Same as H-119 (3 each used)	
H-611		SCREW : Same as H-515 (4 each used)	
H-612		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished, cold headed; steel, cad pl; #4-40 NC-2; 3/16" lg; threaded to head; - Collins Rad part/dwg #343 0416 00; (29 each used)	
H-613		SCREW : Same as H-121 (2 each used)	
H-614		CLAMP : cable clamp; anodized natural aluminum; one bolt employed (not included); 31/32" lg × 5/8" wd × 21/32" d; 3/8" max diam; flame resistant plastic ins; - Collins Rad part/dwg #139 4400 00	
H-615		SCREW : Same as H-118	
H-616		SCREW : Same as H-424 (8 each used)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-617		CLAMP : cable, type #303 SS; 1 bolt employed, not incl; 0. 045" thk, 0. 8887" lg × 3/8" wd × 5/16" h o/a, 1 mtg hole, extruded and tapped #4-40 NC-2 located 13/64" from end; accom 0. 314" cable; - ACEC part/dwg #ACEC502 6375 002, substitute for Collins Rad part/dwg #502 6375 002	
H-618		SCREW : Same as H-425 (3 each used)	
H-619		CLAMP : cable; CRS; cad pl; 29/32" lg × 3/8" wd × 0. 49975" h o/a; to hold 9/32" diam matl; one hole tapped #4-40 NC-2; - Collins Rad part/dwg #505 2065 002	
H-620		CLAMP : holds cable; type #302 steel; passivated finish; 0. 868" lg ×3/8" wd × 0. 368" h o—a; to hold 0. 406" diam matl; one hole extruded and taped #4-40 NC-2 for mtg; ACEC part/dwg #ACEC 505 2327 002, substitute for Collins Rad part/dwg #505 2327 002	
H-621		WASHER : Same as H-439 (6 each used)	
H-622		WASHER : Same as H-440 (6 each used)	
J-601		Not Used	
J-602		CONNECTOR : Same as J-402	
J-603		CONNECTOR : Same as J-402	
J-604		CONNECTOR : Same as J-405	
J-605	5925- 259 7402	CONNECTOR, RECEPTACLE, ELECTRICAL : 1 round female cont; straight; hex 1/2" across flats × 1-1/16" lg max; cylindrical, brass, cad pl body and nut, beryllium copper, silver pl cont; molded melamine type CMG insulation; body and nut threaded 3/8" -32 NEF-2 for mtg; blue head; - Collins Rad part/dwg #360 0057 00	
J-606		CONNECTOR : Same as J-405	
J-607		CONNECTOR : Same as J-402	
J-608		CONNECTOR : Same as J-505	
L-601		COIL, RADIO FREQUENCY : for IF transf #1; two wnd, single layer wnd; unshielded; 56 turns of #30 E wire at 91 turns per inch on ea sect; 2. 182" lg × 23/32" diam; plastic form, varnish impr, air core; 2. 182" lg × 0. 500" diam; 0. 380" diam hole through ctr for core mtg; 4 retainer ring term; - Collins Rad part/dwg #504 6785 002; (p/o T-601 Next Higher Assembly) (incl L-602)	
L-602		p/o L-601 Next Higher Assembly	
L-603		COIL : Same as L-601 (p/o T-602 Next Higher Assembly) (incl L-604)	
L-604		p/o L-603 Next Higher Assembly	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
L-605		COIL, RADIO FREQUENCY : for IF transformer; 2 wnd, single layer wnd; unshielded; 56 turns of #30 E wire at 91 turns per in; 2. 182" lg × 23/32" diam; plastic core, varnish impr; air core; 2. 182" lg × 0. 500" diam form; 0. 380" diam hole for core mtg; 4 retainer ring term; - Collins Rad part/dwg #504 6800 002; (p/o T-603 Next Higher Assembly (incl L-606)	
L-606		p/o L-605 Next Higher Assembly	
L-607		COIL : Same as L-605 (p/o T-604) (incl L-608)	
L-608		p/o L-607 Next Higher Assembly	
N-601		PLATE, INSTRUCTION : 3rd IF ampl schematic, R-278B/GR; aluminum; rectangular; 7-5/16" lg × 3-1/4" wd × 0. 031" thk o/a; four 0. 106" diam holes spaced on 7. 062" × 3. 000" mtg/c; black background w/low gloss anodized aluminum lines and characters; - Collins Rad part/dwg #505 5809 004	
P-601	5935- 302 6275	CONNECTOR, PLUG, ELECTRICAL : 20 round male cont; straight; 1. 937" lg × 0. 750" wd × 0. 406" thk less cont; 500 vacw RMS max at sea level; rectangular metal body; phenolic insert; two 0. 125" diam mtg holes on 1. 620" mtg/c; - Collins Rad part/ ~~dwg #372 1089 00~~ dwg # 372 1069 00	
R-601	5905 PE- 971 729	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 68,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1163 00; JAN spec Jan-R-11, type RC20BF683K; for general purpose use	
R-602		RESISTOR : Same as R-106	
R-603	5905 PE- 971 733	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 150,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1177 00; JAN spec JAN-R-11, type RC20BF154K; for general purpose use	
R-604	5905 PE- 971 758	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 18,000 ohms pm 10 % tol; 2 w power dissipation; temp characteristic letter E; 0. 750" lg × 0. 370" diam max; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 9150 00; JAN spec JAN-R-11, type RC42BE183K; for general purpose use	
R-605	5905 PE- 971 752	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 4,700 ohms p/m 10 % tol; 2 w power dissipation; temp characteristic letter E; 0. 750" lg × 0. 370" diam max; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 9125 00; JAN spec JAN-R-11, type RC42BE472K; for general purpose use	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
R-606		RESISTOR : Same as R-106	
R-607		RESISTOR : Same as R-603	
R-608		RESISTOR : Same as R-604	
R-609		RESISTOR : Same as R-605	
R-610	5905 PE- 971 709	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 470 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1072 00; JAN spec JAN-R-11, type RC20BF471K; for general purpose use	
R-611	3350- 131 000-6311	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 47,000 ohms p/m 10 % tol; 1 w pover dissipation; temp characteristic letter F; 0.750" lg × 0. 280" diam max; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 3156 00; JAN spec JAN-R-11, type RC30BF473K; for general purpose use	
R-612		RESISTOR : Same as R-509	
R-613	5905 PE- 971 724	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 27,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1146 00; JAN spec JAN-R-11, type RC20BF273K; for general purpose use	
R-614		RESISTOR : Same as R-404	
R-615	5905 PE- 971 720	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 :: 12,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1132 00; JAN spec JAN-R-11, type RC20BF123K; for general purpose use	
R-616		RESISTOR : Same as R-102	
R-617	5905 PE- 971 746	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 330 ohms p/m 10 % tol; 2 w power dissipation; temp characteristic letter E; 0. 750" lg × 0. 370" diam max; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 9076 00; JAN spec JAN-R-11, type RC42BE331K; for general purpose use	
R-618		RESISTOR : Same as R-510	
R-619		RESISTOR : Same as R-601	
R-620		RESISTOR : Same as R-412	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
R-621	5905 PE-971 726	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 39,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1153 00; JAN spec JAN-R-11, type RC20BF393K; for general purpose use	
R-622		RESISTOR : Same as R-103	
R-623		RESISTOR : Same as R-413	
R-624		RESISTOR : Same as R-102	
R-625		RESISTOR : Same as R-505	
R-626		RESISTOR : Same as R-102	
R-627		RESISTOR : Same as R-505	
R-628		RESISTOR : Same as R-505	
R-629	3350-101 000-5471	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 100,000 ohms p/m 5 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1169 00; JAN spec JAN-R-11, type RC20BF104J; for general purpose use	
R-630		RESISTOR : Same as R-102	
R-631		Not Used	
R-632		RESISTOR : Same as R-102	
R-633		Not Used	
R-634		Not Used	
R-635		Not Used	
R-636		Not Used	
R-637		RESISTOR : Same as R-103	
R-638		RESISTOR : Same as R-102	
R-639	5905 PE-971 721	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 15,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1135 00; JAN spec JAN-R-11, type RC20BF153K; for general purpose use	
R-640		Not Used	
R-641		RESISTOR : Same as R-106	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
R-642	5905 PE- 971 736	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 330,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406'' lg, 0. 175'' diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1191 00; JAN spec JAN-R-11, type RC20BF334K; for general purpose use	
R-643		RESISTOR : Same as R-311	
R-644		RESISTOR : Same as R-102	
R-645	5905 PE- 971 708	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 390 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406'' lg, 0. 175'' diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1069 00; JAN spec JAN-R-11, typeRC20BF391K; for general purpose use	
R-646		RESISTOR : Same as R-104	
R-647		RESISTOR : Same as R-102	
R-648		Not Used	
R-649		RESISTOR : Same as R-505	
R-650		RESISTOR : Same as R-510	
R-651		RESISTOR : Same as R-510	
R-652		RESISTOR : Same as R-106	
R-653		RESISTOR : Same as R-106	
R-654	3350- 101 000-5621	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 150,000 ohms p/m 5 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406'' lg, 0. 175'' diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1176 00; JAN spec JAN-R-11, type RC20BF154J; for general purpose use	
R-655	3350- 101 000-5341	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 68,000 ohms p/m 5 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406'' lg, 0. 175'' diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1162 00; JAN spec JAN-R-11, type RC20BF683J; for general purpose use	
T-601	3340- 063 100 120	TRANSFORMER, INTERMEDIATE FREQUENCY : resonant freq 2. 05 mc; interstage; shielded; 2. 671'' lg × 1. 375'' wd × 1. 375'' d less term and mtg; powdered iron cores; double tuned; adj iron core tuning; two #4-40 NC-2 mtg studs protruding 0. 375'' from bottom spaced diagonally on 1. 062'' x 1. 062'' mtg/c; four round term posts protruding 27/32'' from bottom ; marker « 505 1481 003 » on side and « 2. 05 MC » on top, incl three 100 mmf p/m 2 % capacitors and one 39 mmf p/m 2 % capacitor; Collins Rad part/dwg #505 1481 003; (incl C-601, C-602, C-603, C-604, L-601, L-602)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
T-602	3340- 063 1100 140	TRANSFORMER, INTERMEDIATE FREQUENCY : resonant freq 2. 05 mc; interstage; shielded, 2. 671'' lg × 1. 429'' wd × 1. 429'' d less term and mtg; powdered iron cores; double tuned; adj iron core tuning; two #4-40 NC-2 mtg studs protruding 0. 375'' from bottom spaced diagonally on 1. 062'' × 1. 062'' mtg/c; four round term posts protruding 27/32'' from bottom; marked « 504 6804 003 » on side and « 2. 05 MC » on top, incl four 100 mmf p/m 2 % capacitors; - Collins Rad part/dwg #504 6804 003; (incl C-605, C-606, C-607, C-608, L-603, L-604)	
T-603		TRANSFORMER : Same as T-602 (incl C-609, C-610, C-611, C-612, L-605, L-606)	
T-604		TRANSFORMER : Same as T-602 (incl C-614, C-615, C-616, C-617, L-607, L-608)	
V-601	5960 PE- 981 155	ELECTRON TUBE : remote-cutoff pentode; glass envelope, miniature, 7 terminations, pin type, JAN type 5749/6BA6W ; - Collins Rad part/dwg #254 0872 00; MIL spec MIL-E-1B	
V-602		ELECTRON TUBE : Same as V-601	
V-603		ELECTRON TUBE : Same as V-601	
V-604	5960 PE- 981 150	ELECTRON TUBE : double diode; glass envelope, miniature, 7 terminations, pin type, JAN type 5726/6AL5W; - Collins Rad part/dwg #254 0844 00; MIL spec MIL-E-1B	
V-605		ELECTRON TUBE : Same as V-604	
V-606		ELECTRON TUBE : Same as V-502	
V-607		ELECTRON TUBE : Same as V-502	
V-608	5960- 166-7664	ELECTRON TUBE : high-mu twin triode; glass envelope, miniature, 9 terminations, pin type; JAN type 12AX7; - Collins Rad part/dwg #254 0790 00; MIL spec MIL-E-1B	
V-609	3370- 31600-6145	ELECTRON TUBE : medium-mu triode; glass envelope, miniature; 7 terminations, pin type; JAN type 6C4; - Collins Rad part/dwg #254 0126 00; MIL spec MIL-E-1B	
XV-601		SOCKET : Same as XV-402	
XV-602		SOCKET : Same as XV-402	
XV-603		SOCKET : Same as XV-402	
XV-604		SOCKET : Same as XV-402	
XV-605		SOCKET : Same as XV-402	
XV-606		SOCKET : Same as XV-404	
XV-607		SOCKET : Same as XV-404	
XV-608		SOCKET : Same as XV-404	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
XV-609		SOCKET : Same as XV-402	
801-899 series		AMPLIFIER, AUDIO FREQUENCY : low level audio output approx 32 mw and main output approx 3 w; freq response broad band within 4 db from 200 cps to 20,000 cps, narrow band 200 cps more than minus 10 db, 400 cps less than minus 5 db, 1000 cps 0 dbs, 3000 cps less than minus 5 db, 5000 cps more than minus 10 db, distortion less than 5 %; 6-13/16" lg × 5-7/8" wd × 4/3/8" d less cable and cable connectors; power input 6. 3 v AC at 1. 1 amp, plus 230 v DC at 100 ma, plus 200 v DC at 12 ma, a regulated plus 150 v DC and neg bias supply of minus 45 v DC at 1/3 ma; 1 input channel, 100, 000 ohm impedance; low level output and main output 600 ohm CT impedance; mtd in main chassis and secured by captive screws; contains audio filter, 2 relays and v regulator; p/o Army-Navy Receiver R-278/GR ; may be used with AN/CRD-6 Direction Finding equipment; - Collins Rad part/dwg #505 8193 005	
A-801		CHASSIS : audio; aluminum, chromate dipped; rectangular; 6-13/16" lg × 5-7/8" wd × 1-1/2" h o/a; 4 mtg posts riveted to chassis in 2 rows spaced 5.500" apart stamped or silk screened black letters and numerals ; 3/32" h on top and bottom ; 4 self clinching fasteners pressed firmly into chassis ; - Collins Rad part/dw #505 5798 003	
A-802		COVER : audio amplifier; anodized aluminum; rectangular; 6-11/16" lg × 5-7/8" wd × 0. 040" thk o/a; four holes, 0. 141" diam for mtg; schematic plate, reverse etch w/ black background, riveted to cover; five cutouts spaced around edge of cover, silk screened « AUDIO AMPLIFIER PART OF R-278B/GR »; - Collins Rad part/dwg #505 8181 002	
A-803		COVER : for 20 plug cont; anodized aluminum; 2-1/16" h × 2. 025" lg × 0. 838" wd o/a, 2 holes on inside tapped #4-40 NC-2 spaced 1. 620" c to c for mtg; 2 cad pl steel cable clamp screws threaded #4-40 NC-2, 5/8" diam hole at top for cable; silk screened « P-801 AUDIO AMPLIFIER »; - Collins Rad part/dwg #505 2720 001	
A-804		COVER : for 20 plug cont; anodized aluminum; 2-1/16" h × 2. 025" lg × 0. 838" wd o/a; 2 holes on inside tapped #4-40 NC-2 spaced 1. 620" c to c for mtg; 2 cad pl steel cable clamp screws threaded #4-40 NC-2, 5/8" diam hole at top for cable; silk screened « P-802 AUDIO AMPLIFIER » - Collins Rad part/dwg #505 2721 001	
C-801		CAPACITOR : Same as C-509	
C-802	3330- 057 252 614	CAPACITOR, FIXED, PAPER DIELECTRIC : 1 section; 100 6 mf + 20 %, — 10 % tol at + 25°C; stabilized wax impr, no in gnd connection; HS metallic, non-magnetic case; 1-13/16" lg × 1-1/16" wd × 2-1/2" h w/o term; two solder lug term 7/16" max lg, 13/16" c to c located on bottom; accom mtg bkt; - Collins Rad part/dwg #930 0352 00	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
C-803	3330 376 119 600	CAPACITOR, FIXED, MICA DIELECTRIC : 500 vdcw; 1, 000 mmf ± 10 % tol; temp coef letter B; ins molded case; 53/64" lg, 53/64" wd, 9/32" thk; 2 term axial wire lead type; 0. 040" diam tinned wire, 1-1/8" lg min; - Collins Rad part/dwg #935 4053 00; JAN spec JAN-C-5, type CM30B102K	
C-804	3330-376 040 800	CAPACITOR, FIXED, MICA DIELECTRIC : 500 vdcw; 68 mmf ± 10 % tol; temp coef letter B; ins molded case; 51/64" lg, 15/32" wd, 7/32" thk; 2 term axial wire lead type, 0. 032" diam tinned wire, 1-1/8" lg min; - Collins Rad part/dwg #935 0099 00; JAN spec JAN-C-5, type CM20B680K	
C-805	3330-376 016 200	CAPACITOR, FIXED, MICA DIELECTRIC : 500 vdcw; 220 mmf ± 10 % tol; temp coef letter B; ins molded case; 51/64" lg; 15/32" wd, 7/32" thk; 2 term axial wire lead type, 0. 032" diam tinned wire, 1-1/8" lg min; - Collins Rad part/dwg #935 0120 00; JAN spec JAN-C-5, type CM20B221K	
C-806		CAPACITOR : Same as C-643	
C-807		CAPACITOR : Same as C-509	
C-808		CAPACITOR : Same as C-509	
C-809		CAPACITOR : Same as C-509	
C-810	3330-376 123 800	CAPACITOR, FIXED, MICA DIELECTRIC : 500 vdcw; 1,500 mmf ± 10 % tol; temp coef letter B; ins molded case; 53/64" lg, 53/64" wd, 9/32" thk; 2 term axial wire lead type, 0. 040" diam tinned wire, 1-1/8" lg min; - Collins Rad part/dwg #935 4060 00; JAN spec JAN-C-5, type CM30B152K	
E-801		CAP : Same as E-201	
E-802	5975 PE-930 552	CAP, ELECTRICAL : tube: steel, cad pl; cylindrical; bayonnet mtg; 13/16" ID × 2-1/4" lg; spring material, non-magnetic; - Collins Rad part/dwg #141 0163 00	
E-803		CAP : Same as E-802	
E-804		CAP : Same as E-802	
E-805		BRACKET : mts CP70 type capacitors; straight shape; hot tin dipped steel, cad pl; 3. 125" lg × 25/32" wd; one # 10-32 stud for mtg w/ thd 5/8" lg - Collins Rad part/dwg #139 0390 00	
E-806		TERMINAL : Same as E-103	
E-807		TERMINAL : Same as E-103	
E-808		TERMINAL : Same as E-103	
E-809		TERMINAL : Same as E-103	
E-810		TERMINAL : Same as E-103	
E-811		TERMINAL : Same as E-103	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
E-812		TERMINAL : Same as E-103	
E-813		TERMINAL : Same as E-411	
E-814		TERMINAL : Same as E-411	
E-815		TERMINAL : Same as E-612	
E-816		TERMINAL : Same as E-411	
E-817		TERMINAL : Same as E-411	
E-818		BRACKET : Same as E-805	
H-801		SCREW, CAPTIVE : Phillips drive; Bind H; type #430; SS; 8-32 NC-2; 1-11/32" lg; thd 3/4" lg, also thd 3/63" lg under head; head 0. 321" diam × 0. 115" thk; red head; - Collins Rad part/dwg #505 0827 002; (4 each used)	
H-802		WASHER : Same as H-119 (18 each used)	
H-803		CLAMP : cable; aluminum; plain finish; 1 bolt employed, 0. 203" diam hole and 0. 171" diam hole; 1-7/8" lg × 111/16" wd; accom approx 1" cable; 60-70 durometer syn rubber 1/32" thk; - Collins Rad part/dwg #139 0029 00	
H-804		SCREW : Same as H-118 (2 each used)	
H-805		SCREW : Same as H-425 (8 each used)	
H-806		NUT : Same as H-430 (12 each used)	
H-807		WASHER : Same as H-413 (24 each used)	
H-808		WASHER : Same as H-608	
H-809		TERMINAL, LUG : flat shakeproof; tinned phosphor bronze; 23/32" lg × 5/16" wd × 0. 018" thk o/a w/ 0. 142" stud hole; solder connects to wire; - Collins Rad part/dwg #304 3120 00; (4 each used)	
H-810		TERMINAL : Same as H-113 (5 each used)	
H-811		SCREW : Same as H-121 (4 each used)	
H-812		SCREW : Same as H-612 (16 each used)	
H-813		CLAMP : cable; aluminum; anodized; 1 bolt employed, 11/64" hole; 1-1/8" lg × 11/16" wd × 111/16" h; accom 1/2" cable; flame resistant plastic ins; - Collins Rad part/dwg #139 4500 00	
H-814		NUT : Same as H-605 (18 each used)	
H-815		WASHER : Same as H-105 (4 each used)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-816		WASHER, LOCK : steel, cad pl; round, 0. 204'' ID, 0. 406'' OD, 0. 022'' thk; shakeproof type, tw ext teeth; for #10 screw; - Collins Rad part/dwg #373 5040 00; (2 each used)	
H-817		WASHER : Same as H-439	
H-818		Not Used	
H-819		NUT, PLAIN, HEXAGON : steel, cad pl; #10-32 NF-2; 1/8'' thk; 3/8'' wd across flats; double chamfered; - Collins Rad part/dwg #313 0121 00; (2 each used)	
H-820		WASHER : Same as H-440	
J-801		Not Used	
J-802		Not Used	
J-803	5935- 258-5812	CONNECTOR, RECEPTACLE, ELECTRICAL : 1 round female cont; straight; hex 1/2'' across flats × 1-1/16'' lg max; cylindrical, brass, cad pl body and nut, beryllium copper, silver pl cont; molded melamine type CMG insulation; body and nut threaded 3/8'' NEF-2 for mtg; red head; - Collins Rad part/dwg #360 0055 00	
K-801	5945- 295-6755	RELAY, ARMATURE : cont arrangement 2 C, 1 A, contact rating 2 C audio, 1 A : 115 v at 1 amp DC; audio gold alloy contact; single wnd; 60 v DC nominal drop-out, 1. 0 ma DC; max current 7. 4 ma; 10, 000 ohm p/m 10 % at approx 25°C; solder type term; 2-7/8'' lg 1-7/8'' wd × 1-7/16'' d case; three #6-32 NC-2 studs forming isoscele triangle on 15/16'' × 1-3/16'' mtg/c on base; fast acting; HS case; - Collins Rad part/dwg #974 0011 00	
K-802	5945- 549-9966	RELAY, ARMATURE : 2 A, 1 B; 2 A, 1 w audio, 1 B, 250 v at 0. 3 amp DC; gold alloy audio contacts; single wnd, 115 v DC nom, 125 v DC max, pull-in, 77 v DC at minus 55°C to plus 75°C ambient temp, drop-out 55 v DC max, 4000 ohms p/m 20 %, ins; solder lug type term; 1-7/8'' lg × 1-7/16'' wd × 2-7/8'' h; three #6-32 studs forming isosceles triangle on 15/16'' × 19/16'' mtg/c on base; fast acting; HS case; - Collins Rad part/dwg #974 0001 00	
L-801	3340- 062 450 710	REACTOR : audio reactor; 3. 75 hy; 930 ohm DC resistance; 1000 v RMS test v; HS metal closed case; 1-3/16'' lg × 1-3/8'' wd × 1-1/8'' d o/a; two #6-32 NC-2 mtg studs spaced diagonally on 1-5/16'' mtg/c extending 3/8'' from bottom; two solder lug term 5/16'' c to c extending from bottom; - Collins Rad part/dwg #678 0341 00; MIL spec MIL-T-27	
N-801		PLATE, INSTRUCTION: audio ampl schematic, R-278B/GR; aluminum, rectangular; 5-9/16'' lg × 4-7/8'' wd × 0. 031'' thk o/a; four 0. 196'' diam holes spaced on 5.312'' × 4. 625'' mtg/c; black background w/low gloss anodized aluminum lines and characters; - Collins Rad part/dwg # 505 8187 004	
P-801		CONNECTOR : Same as P-601	
P-802		CONNECTOR : Same as P-601	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
R-801		RESISTOR : Same as R-629	
R-802	5905 PE-971 711	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 1,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406'' lg, 0. 175'' diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; Collins Rad part/dwg #745 1086 00; JAN spec JAN-R-11, type RC20BF102K; for general purpose use	
R-803		RESISTOR : Same as R-610	
R-804		RESISTOR : Same as R-106	
R-805		RESISTOR : Same as R-106	
R-806		RESISTOR : Same as R-404	
R-807	5905 PE-971 732	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 120,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406'' lg, 0. 175'' diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1174 00; JAN spec JAN-R-11, type RC20BF124K; for general purpose use	
R-808		RESISTOR : Same as R-801	
R-809		RESISTOR : Same as R-102	
R-810	5905-549-8100	RESISTOR, FIXED, WIRE-WOUND : power type: JAN type #RW50J312; 3,100 ohm p/m 5%; 5 w at 275°C max continuous oper temp; 1-3/8'' × 5/8'' max diam; two 5/32'' wd × 0. 018'' thk × 9/16'' lg axial tab term; JAN spec JAN-R-26A; - Collins Rad part/dwg #747 5090 00	
R-811	5905 PE-971 730	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 82,000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406'' lg; 0. 175'' diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1167 00; JAN spec JAN-R-11, type RC20BF823K; for general purpose use	
R-812		RESISTOR : Same as R-712	
R-813		RESISTOR : Same as R-712	
R-814		RESISTOR : Same as R-712	
R-815	5905 PE-971 705	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 100 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406'' lg, 0. 175'' diam; ins; RTH and RSW; 2 term; axial wire lead type; HF appl; - Collins Rad part/dwg #745 1044 00; JAN spec JAN-R-11, type RC20BF101K; for general purpose use	
R-816		RESISTOR : Same as R-815	
R-817		RESISTOR : Same as R-610	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
R-818		RESISTOR : Same as R-610	
R-819		RESISTOR : Same as R-815	
R-820		RESISTOR : Same as R-815	
T-801	3340- 062 750 390	TRANSFORMER, AF : plate coupling type plate to push-pull grids; pri 10, 000 ohms impedance, secd #1-60,000 ohms CT, secd #2-600 ohm CT, 1500 test v; closed metal case; 2-3/16" lg × 2-1/4" wd ×2-11/16" h; 30 milliwatts; turns ratio of pri to 1/2 secd. 574:1; freq response 200 to 20, 000 cps p/m 1 db; electrostatic shield between pri and secd; 10 solder lug term on bottom; four #6-32 studs 1-3/8" c to c for mtg; - Collins Rad part/dwg #677 0335 00; JAN spec JAN-T-27	
T-802	3340- 062 750 380	TRANSFORMER, AF : pate coupling type; pri 12,000 ohm impedance CT, secd 600 ohm impedance CT, max DC cur rating 40 ma balanced pri, zero secd, 1500 test v; steel closed case; 1-15/16" lg × 1-13/16" wd × 2-1/4" d o/a; 5 w max output; 4.46:1 total pri to total secd; freq response 200 to 20,000 cps p/m 1 db; 7 solder lug term extending from bottom; four #6-32 NC-2 mtg studs spaced on 1-5/16" × 1-1/16" mtg/c; - Collins Rad part/dwg #677 0338 00; MIL spec MIL-T-27	
V-801		ELECTRON TUBE : Same as V-502	
V-802	5960 PE- ~~981 451~~ 981 151	ELECTRON TUBE : beam power amplifier; glass envelope, miniature, 7 terminations, pin type; JAN type 6005/6AQ5W; - Collins Rad part/dwg #254 0845 00; MIL spec MIL-E-1B	
V-803		ELECTRON TUBE : Same as V-802	
V-804	5960 PE- 981 156	ELECTRON TUBE : voltage regulator, glow-discharge type; glass envelope, miniature, 7 terminations, pin type, JAN type 6073/OA 2WA; - Collins Rad part/dwg #254 0873 00; MIL spec MIL-E-1B	
XV-801		SOCKET : Same as XV-404	
XV-802		SOCKET : Same as XV-402	
XV-803		SOCKET : Same as XV-402	
XV-804		SOCKET : Same as XV-402	
901-999 series		POWER SUPPLY : electronic type, gas rect in series; power output plus 230 v DC at 180 ma, plus 200 v DC at 163 ma, minus 45 v DC at 3 ma, plus 115 v DC at 1 amp and 115 v AC at 1.5 amp; power input 115 v AC or 230 v AC , 60 cps, single phase, 4 amp max, 2. 5 amp avg, 400 w max; 0. 787" lg × 2. 162" wd × 6. 768" d less cable; rect tubes are two 3B22 and one 6X4; plate v full wave rectification and neg bias is half wave; filter not incl; five 1/4" diam mtg holes irregularly spaced on top of power supply; contains thermal time delay relay and 115/230 v AC sw; p/o Army-Navy Receiver R-278B/GR; - Collins Rad part/dwg #504 8583 004	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
A-901		CHASSIS : rectifier, c/o 5 mtg post, 7 inserts, one eyelet riveted to chassis; chromate dipped aluminum chassis, type #303 SS mtg posts, anodized aluminum inserts, cad pl brass eyelets; 9. 818" lg × 6. 224" wd × 6. 203" h o/a; seven #4-40 tapped inserts for mtg spaced asymmetrically around side; black silk screened letters and numerals 3/32" h; five mtg posts, three 0. 437" diam × 1. 562" lg, two 0.438" diam x 1.063" lg; - ACEC part/dwg # ACEC 504 8580 003, substitute for Collins Rad part/dwg #504 8580 003	
A-902		COVER, ELECTRICAL CONNECTOR : anodized aluminum; rectangular; 1-1/2" lg × 3/4" wd inside, 1. 580" lg × 0. 830" wd × 2-1/16" h o/a outside; 2 tapped #6-32 NC-2 mtg holes spaced 1. 188" c to c; black silk screened numerals and letters 3/32" h on one side of cover; 19/32" diam cable opening on one end; - Collins Rad part/dwg #505 1466 001	
A-903		COVER : rectifier bottom; chromate dipped aluminum cover, type LTS-E-3 laminated thermosetting plastic insulator, aluminum rivets; irregular shape; 9-9/16" lg × 5-15/16" wd × 0. 071" thk o/a; seven 0. 106" diam mtg holes spaced asymmetrically around edge of cover; insulator fastened to cover by 3 rivets; - Collins Rad part/dwg #504 9165 003	
C-901	3330- 057 251 006	CAPACITOR, FIXED, PAPER DIELECTRIC : 1 section; 600 vdcw; 0. 01 mf ± 20 % tol; high temp impr type; style #18, Ref Dwg Group 1; tubular metallic non-magnetic case; HS; one end gnd; 13/16" lg, 0. 312" diam; 2 term, #22AWG axial wire lead type, 1-1/2" lg; mtg facilities not incl; - Collins Rad part/dwg #931 0860 00	
C-902		CAPACITOR : Same as C-901	
C-903		CAPACITOR : Same as C-901	
C-904		CAPACITOR : Same as C-901	
C-905	3330 PE- 962 199	CAPACITOR, FIXED, PAPER DIELECTRIC : 1 section; 400 vdcw; 0. 22 mf ± 20 % tol; high temp impr type; style #18, Ref Dwg Group 1; tubular metallic non-magnetic case; HS; both ends floating; 1. 496" lg, 0. 665" diam; 2 term; #20AWG axial wire lead type; 1-1/2" lg; mtg facilities not incl; ACEC part/dwg ACEC931 0942 00; substitute for Collins Rad part/dwg #931 0942 00	
E-901		CAP : Same as E-802	
H-901		SCREW, CAPTIVE : Phillips drive; Bind H, unfinished; type #430 SS; #10-24 NC-2; 1. 766" lg; threaded portion 1-1/4" lg and 3/64" lg under head; 0. 133" thk × 0. 374" diam head; 0. 135" diam × 0. 516" lg unthreaded portion, red E head; - Colins Rad part/dwg #505 0829 002; (3 each used)	
H-902		SCREW, CAPTIVE : Phillips drive; Bind H; type #430 SS; #10-23 NC-2; 1. 266" lg; thd 3/4" lg, also thd 3/64" under head; head 0. 374" diam × 0. 133" thk; red head; - Collins Rad part/dwg #505 0830 002; (2 each used)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-903	5960 PE-981 159	RETAINER, ELECTRON TUBE : SS, type #302; plain finish; one bolt employed, slot 3/16" wd × 5/16" lg; 1-3/8" OD, 1-1/4" ID, 15/16" wd; accom 1-1/4" tube; for intermediate shell octal base; - Collins Rad part/dwg #139 0016 00	
H-904	5960 PE-981 160	RETAINER, ELECTRON TUBE : for medium shell octal base and for medium 4, 5, 6 and 7 pin base; SS type #302; plain finish; 2 bolts employed, 2 slots 3/16" wd × 5/16" lg; 1-3/8" ID, 15/16" wd o/a; accomodates 1-3/8" tube; holding spurs included; - Collins Rad part/dwg #139 0019 00	
H-905		WASHER, FLAT : corprene, plain finish; round, 0. 375" OD, 0. 147" ID, 0. 032" thk; - Collins Rad part/dwg #302 0026 00; (6 each used)	
H-906		WASHER : Same as H-413 (14 each used)	
H-907		WASHER : Same as H-816 (8 each used)	
H-908		WASHER : Same as H-608 (2 each used)	
H-909		NUT : Same as H-605 (6 each used)	
H-910		WASHER : Same as H-119 (12 each used)	
H-911		TERMINAL, LUG : solder type; tinned brass; 15/16" lg × 3/8" wd × 0. 032" thk w/ stud hole for #10 screw; solder connects to wire; 2 clamping ears for 9/32" diam insulation; - Collins Rad part/dwg #304 1300 00	
H-912		TERMINAL : Same as H-113	
H-913		TERMINAL : Same as H-809	
H-914		WASHER, LOCK : steel cad pl; round, 0. 607" OD × 0. 022" thk; shakeproof type, tw int teeth for 0. 480" screw size; - Collins Rad part/dwg #373 0079 00; (2 each used)	
H-915		NUT : Same as H-430 (6 each used)	
H-916		NUT : Same as H-819 (8 each used)	
H-917		WASHER, FLAT : brass, nickel pl; round, 0. 147" ID, 0.375" OD, 0. 032" thk; - Collins Rad part/dwg #310 0056 00; (5 each used)	
H-918		POST, SPACING : spaces sw bar from chassis; anodized aluminum; cylindrical hex; 1/4" wd across flats × 3/4" lg; tapped #4-40 NC-2 lg of post; - Collins Rad part/dwg #504 8578 002	
H-919		WASHER : Same as H-205	
H-920		SCREW : Same as H-118 (14 each used)	
H-921		CLAMP : Same as H-614	
H-922		SCREW : Same as H-425 (14 each used)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-923		WASHER : Same as H-439 (2 each used)	
H-924		CLAMP : cable; CRS, type #302, passivated; 25/32" lg × 3/8" wd × 3/4" o/a; holds 11/32" diam cable; #4-40 NC-2 extruded and tapped hole in ctr of mtg foot; - Collins Rad part/dwg #505 2065 002	
H-925		TERMINAL, LUG : solder type; tinned copper; 3/4" lg × 5/16" wd × 0. 016" thk o/a w/ 13/64" stud hole; solder connects to wire; - Collins Rad part/dwg #304 8000 00; (3 each used)	
H-926		WASHER : Same as H-440 (2 each used)	
H-927		WASHER, LOCK : SS; round; 0. 320" OD, 0. 200" ID, 0. 049" thk; split-ring type; - Collins Rad part/dwg #310 3310 00; (5 each used)	
J-901		Not Used	
J-902		CONNECTOR : Same as J-803	
J-903		CONNECTOR : Same as J.-605	
K-901	5945- 295-4182	RELAY, THERMAL : normally open, SPST; cont rating 6. 0 amp at 115 v AC; tung cont; octal base w/ 8 cont pins; 1. 275" diam max × 3-1/4" lg excluding term; octal base, plug-in mtg; 35 sec p/m sec at nom v; - Collins Rad part/dwg #402 0207 00	
L-901	3340- 060 707 200	COIL, RADIO FREQUENCY : choke; 3 pie, duolateral wnd; unshielded; 1 mh, 300 ma, 10 ohms approx, 1. 5 mmf max, 190 turns of #32 single silk enameled wire ea sect, 35/64" diam × 1-15/16" lg o/a; core and form ceramic Grade L-4; 1/4" × 1-7/32" lg form; one mounting hole #6-32 tapped 3/8" deep on bottom, 2 cotter pins, one 1/8" from top and one 19/32" from bottom; fp, compound or varnish impregnated; - Collins Rad part/dwg #240 0020 00	
L-902		COIL : Same as L-901	
L-903		COIL : Same as L-901	
L-904		COIL : Same as L-901	
L-905		COIL : Same as L-901	
L-906		COIL : Same as L-901	
N-901		PLATE, INSTRUCTION : power supply rectifier schematic, R-278B/GR; aluminum; rectangular; 5-3/8" lg × 2-5/8" wd × 0. 031" thk o/a; four 0. 106" diam holes spaced on 5. 125" × 2. 375" mtg/c; black background w/low gloss anodized aluminum lines and characters; - Collins Rad part/dwg #505 8180 003	
O-901		BAR, SWITCH ACTUATOR : actuates two sw; anodized aluminum; 2-1/8" lg × 5/8" wd × 1/4" h o/a; mtg slot 1/2" lg × 0. 124" wd located in ctr of bar; two 0. 250" diam holes for sw toggles spaced 1. 625" c to c; - Collins Rad part/dwg #504 8577 002	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
P-901	5935- 303-0692	CONNECTOR, PLUG, ELECTRICAL : 15 round male pol cont; straight; 1. 500" lg × 0. 750" wd × 0. 255" thk less term and cont; 3 cont 15 amp, 12 cont 5 amp; rectangular phenolic body; two 0. 156" diam mtg holes spaced 1. 188" c to c; - Collins Rad part/dwg #372 1079 00	
S-901	3360 PE- 978 314	SWITCH, TOGGLE : DPDT; JAN type #ST22N; inductive load 3 amp at 125 v, 1,5 amp at 250 v; phenolic body; 1-9/32" lg × 23/32" wd × 2. 125" h o/a; 11/16" lg bat type handle; locking action; six lug term; 15/32" lg sleeve × 15/32" -32 NS-2 mtg bushing, incl 2 hex nuts; JAN spec JAN-S-23; - Collins Rad part/dwg #266 3030 00	
S-902		SWITCH : Same as S-901	
T-901	3340 PE- 968 366	TRANSFORMER, POWER DISTRIBUTION : plate type; input 115 v, 50/60 cps, single phase; 2 output windings; sec #1-230 v at 0. 35 amp CT, secd #2-115 v at 1, 15 amp CT; 700 v RMS insulation; varnish impr; HS metal case; 4-1/8" lg ×3-1/2" wd × 4-15/16" h excluding term and mtg attachments; ten solder lug term located on bottom of case; four #10-32 NC-2 mtg studs 3/8" lg spaced on 2. 375" × 3" mtg/c; schematic; ACEC part/dwg #ACEC 672 0393 00, substitute for Collins Rad part/dwg #672 0398 00; JAN spec JAN-T-27.	
T-902	3340 PE- 968 365	TRANSFORMER, POWER DISTRIBUTION : filament type; imput 115 v 50/60 cps, single phase; 3 output windings; secd #1-2.5 v at 6. 0 amp, secd #2-2.5 v at 6. 0 amp, secd #3-12,6 v at 6. 0 amp CT; 1500 v RMS insulation; varnish impr; HS metal case; 3-21/32" lg x 3-19/64" wd x 4-1/2" h excluding term and mtg attachments; eleven solder lug term located on bottom of case; four #10-32 mtg studs 3/8" long spaced on 2. 812" × 2. 250" mtg/c; schematic; ACEC part/dwg #ACEC 672 0380 00; substitute for Collins Rad part/dwg #672 0380 00; MIL spec MIL-T-27	
V-901	5960- 108-0240	ELECTRON TUBE : full wave gas rectifier, hot cathode type glass envelope, 4 terminations, pin type; JAN type 3B22; - Collins Rad part/dwg #254 0065 00 MIL spec MIL-E-1B	
V-902		ELECTRON TUBE : Same as V-901	
V-903	3370- 304 000-6175	ELECTRON TUBE : full-wave vacum rectifier; glass envelope, miniature, 7 terminations, pin type; JAN type 6X4; - Collins Rad part/dwg #254 0811 00; MIL spec MIL-E-1B	
XK-901	8850- 887 657	SOCKET, ELECTRON TUBE : octal; one piece saddle mtg; two 0. 156" diam mtg holes 1. 312" c to c; round, low loss mica filled bakelite 1-5/8" lg × 1-3/16" wd × 1/2" thk excluding term; phosphor bronze, silver pl cont; - Collins Rad part/dwg #220 1005 00	
XV-901	8850- 876 500	SOCKET, ELECTRON TUBE : 4 cont, miniature; retainer ring mounting; 1. 172" diam chassis cutout required; round, phenolic body, 1.246" diam × 27/64" lg less term; copper base, non-magnetic alloy silver pl cont; retainer ring incl; - Collins Rad part/dwg #220 1133 00	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
XV-902		SOCKET : Same as XV-901	
XV-903		SOCKET : Same as XV-402	
1001-1099 series		FILTER, DC POWER : capacitors and iron core chokes for plate v, capacitors and resistor for neg bias supply, 4 hy and 6 hy HS chokes, capacitors 4 mf, 4 mf, 4 mf, 0. 22 mf, 1 mf and 1 mf; 10-3/8" lg × 2-7/8" wd × 6-3/16" d; plus 230 v DC at 200 ma, plus 200 v DC at 160 ma and minus 45 v DC at 3 ma; four 0. 218" diam mtg holes irregularly spaced on top of power supply filter; short cable w/ connector; p/o Army-Navy Receiver R-278B/GR; - ACEC part/dwg # ACEC 504 8204 005, substitute for Collins Rad part/dwg #504 8204 005	
A-1001		CHASSIS : for filter; chromate dipped aluminum; rectangular; 10-3/8" lg × 2. 906" wd × 1. 718" h o/a; 6 anodized aluminum inserts, four type #303 steel mtg posts; black silk screened letters and numerals 3/32" h on top, 1/8" h on bottom and side; - Collins Rad part/dwg #504 7816 003	
A-1002		COVER : filter; chromate dipped aluminum cover, aluminum schematic plate; retangular w/ 2. 4375" lg × 7/8" wd cutout at one end; 10-3/16" lg × 2-11/16" wd × 0. 125" thk o/a; four 0. 390" diam holes irregularly spaced; silk screened reverse etch w/ black background and low gloss anodized aluminum lines and characters; schematic plate riveted to cover; - Collins Rad part/dwg #505 2061 003	
A-1003		BRACKET : mtg for capacitor; angle shape; chromate dipped aluminum; 2-9/16" lg × 1-3/8" wd × 0. 706" h o/a; mts by two 0. 203" diam holes, one in each foot; - Collins Rad part/dwg #504 8205 003	
A-1004		COVER, ELECTRICAL CONNECTOR : anodized aluminum can, cad pl steel cable clamp and screws; rectangular, 1. 264" lg × 1-19/64" wd × 1-1/4" h o/a; two mtg tabs on inside of cover; one on each side, extruded and tapped #4-40 NC-2, 0. 375" diam cable opening; black silk screening 3/32" h, « P-1001 POWER SUPPLY FILTER »; two #6-32 NC-2 screws in cable clamp; - Collins Rad part/dwg #505 1499 001	
A-1005		BRACKET : mtg for capacitor; irregular shape; cad pl; 2-27/32" lg × 1-23/32" wd × 2-49/64" h o/a; mtd by two 6-32 NC-2 studs spaced 1-9/16" apart; - Collins Rad part/dwg #505 8534 002	
C-1001	3330- 057 250 261	CAPACITOR, FIXED, PAPER DIELECTRIC : 1 section; 400 vdcw; 0. 22 mf ± 20 % tol; high temp impr type; style #18, Ref Dwg Group 1; tubular metallic non-magnetic case; HS; both ends floating; 1-3/8" lg, 0. 562" diam; 2 term, #20AWG axial wire lead type, 1-1/2" lg; mtg facilities not incl; - Collins Rad part/dwg #931 0463 00	
C-1002		CAPACITOR : Same as C-1001	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
C-1003	3330- 056 750 064	CAPACITOR, FIXED, PAPER DIELECTRIC : 1 section; 600 vdcw; 4 mf, + 40 % — 15 % tol; temp coef letter F; one term gnd; HS metallic case; 4-1/2" h except term, 5-11/16" h max o/a; 1-1/2" diam; two solder lug term on mtg base; mtd by #3/4" - 16 NF -2 thd bushing, 1/2" lg, mtg nuts, washers and solder lug term incl; - Collins Rad part/dwg #961 3002 00; JAN spec JAN-C-25, type CP40C2FF405X	
C-1004		CAPACITOR : Same as C-1003	
C-1005		CAPACITOR : Same as C-1003	
C-1006	3330- 056 750 054	CAPACITOR, FIXED, PAPER DIELECTRIC : 1 section, 400 vdcw; 1,0 mf, + 40 %, — 15 % tol; temp coef letter E; no int gnd connection; HS metallic case; 1 - 5/16" lg × 49/64" wd × 2-1/2" h except term; two solder lug term, 3/4" max lg, 5/8" c to c, on bottom side; accom mtg bkt; - Collins Rad part/dwg #961 7194 00; JAN spec JAN-C-25, type CP61B1EE105X	
C-1007		CAPACITOR : Same as C-1006	
E-1001		BRACKET, MOUNTING : JAN type #CP06SA5; u/w CP61 capacitors; non-magnetic material, hot tin dipped or cad pl; 1-11/32" lg × 49/64" wd × 2-1/2" h; mtd by two studs thd #6-32 NC-2 spaced 1-9/16" c to c; JAN spec JAN-C-25; - Collins Rad part/dwg #139 0119 00	
H-1001		SCREW : Same as H-601 (4 each used)	
H-1002		WASHER : Same as H-105 (4 each used)	
H-1003		SCREW : Same as H-425 (6 each used)	
H-1004		WASHER : Same as H-413 (7 each used)	
H-1005		Not Used	
H-1006		CLAMP : cable; #18 CRS; cad pl; one bolt employed, not incl; 0. 0478" thk; 0. 829" lg × 1/2" wd × 0. 266" h o/a, 1 mtg hole 0. 206" diam located 1/4" from end; accom 1/4" diam cable; - Collins Rad part/dwg #507 6744 00	
H-1007		SCREW : Same as H-118	
H-1008		WASHER : Same as H-119 (10 each used)	
H-1009		NUT : Same as H-605 (10 each used)	
H-1010		TERMINAL : Same as H-809	
H-1011		WASHER, LOCK : steel, cad pl; round 3/8" OD × 0. 020" thk; shakeproof type, tw ext teeth; accom #8 machine screw - Collins Rad part/dwg #373 5030 00; (4 each used)	
H-1012		NUT, PLAIN, HEXAGON : steel, nickel pl; #8-32 NC-2; 1/8" thk; 11/32" wd across flats; double chamfered; - Collins Rad part/dwg #313 0099 00; (4 each used)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-1013		CLAMP : cable; CRS; cad pl; one bolt employed, not incl; 1-3/32" lg × 1/2" wd × 0. 6245" thk o/a; 0. 56250" diam hole for matl; two 0. 156" diam holes for bolt; - Collins Rad part/dwg #505 2064 002	
H-1014		WASHER : Same as H-608 (3 each used)	
H-1015		SCREW : Same as H-121 (2 each used)	
H-1016		Not Used	
H-1017		WASHER : Same as H-439 (3 each used)	
H-1018		NUT : Same as H-430 (2 each used)	
H-1019		WASHER : Same as H-440 (3 each used)	
J-1001		Not Used	
J-1002		CONNECTOR : Same as J-803	
J-1003		CONNECTOR : Same as J-605	
J-1004		CONNECTOR : Same as J-803	
L-1001	3340- 062 450 720	REACTOR : filter; 4. 0 hy min at 10 v RMS, 60 cps for inductance, 0. 35 amp; 55 ohm DC resistance p/m 10 %; 1500 v RMS test; HS metal case; 4" h × 3-1/4" lg × 2-3/4" wd; four #8-32 NC-2 mtg studs spaced on 2-7/16" x 2-1/16" c to c; two solder lug term spaced 1/2" c to c extending 5/8" from bottom; ambient temp minus 55°C to plus 75°C, Collins part number and schematic marked on case; - Collins Rad part/dwg #678 0390 00; JAN spec JAN-T-27	
L-1002	3340- 062 450 730	REACTOR : filter; 6. 0 hy, 0. 15 amp; 125 ohm ± 15 %; 1500 v RMS test; HS metal case; 2-7/8" h × 2-3/4" lg × 1-7/8" wd; four #6-32 NC-2 mtg studs on 1. 874" × 1" mtg/c; two solder lug term spaced 1/2" c to c extending 5/8" from bottom; ambient temp minus 55°C to plus 75°C, Collins part number and schematic marked on case; - Collins Rad part/dwg #678 0389 00; JAN spec JAN-T-27	
N-1001		PLATE, INSTRUCTION : power supply filter schematic, R-278 B/GR; aluminum; rectangular; 5-11/16" lg × 1-5/8" wd × 0. 031" thk o/a; six 0. 106" diam holes spaced on 2. 718" × 1. 375" mtg/c; black background w/low gloss anodized aluminum lines and characters; - Collins Rad part/dwg #505 2062 003	
P-1001		CONNECTOR : Same as P-101	
R-1001	3350- 131 000-6211	RESISTOR, FIXED, COMPOSITION : body stye #3, Ref dwg group 2; 39,000 ohms p/m 5 % tol; 1 W power dissipation; temp characteristic letter F; 0. 750" lg × 0. 280" diam max; ins; RTH and RSW : 2 term, axial wire lead type; HF appl; Collins Rad part/dwg #745 3152 00; JAN spec JAN-R-11, type RC30BF393J; for general purpose use.	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
R-1002		RESISTOR : Same as R-404	
R-1003		RESISTOR : Same as R-642	
1101-1199 series		CONTROL UNIT, FREQUENCY : for mechanically adjusting the R-278B/GR rec to any one of 1750 channel freq through 3 motor driven shafts and sliding type couplers in 0. 1 mc increments from 225. 0 mc to 399. 0 mc. It is possible to preset 10 channels plus one manual channel. These 10 preset channels may be selected from a remote position over 4 wires, max channeling time is approx 4. 5 sec; power input 115 v AC at 1 amp for motor supply and plus 115 v DC at 600 ma for relay oper supply; motor speed governor controlled to between 4000 and 5000 rpm; 15-34" lg x 10" wd x d o/a ; two 0. 257" diam mtg holes on front spaced 10" c to c; silk screened; - ACEC part/dwg #ACEC 504 8353 005, substitute for Collins Rad part/dwg #504 8353 005	
A-1101		PANEL : front, autopositioner; c/o plate and window dial; aluminum w/ olive drab paint; 9-5/8" lg × 4-1/8" wd × 0. 125" thk o/a; eight 0. 152" diam mtg holes located on side and bottom of panel, spaced 1-1/2" apart on sides and 2-1/4" apart on bottom; - Collins Rad part/dwg #504 7531 003	
A-1102		PLATE, BEARING : mts positioner motor; anodized aluminum; 3" lg × 2-7/8" wd × 1/8" thk o/a; three 0. 1875" diam mtg holes on 2" × 2" mtg/c; - Collins Rad part dwg #504 7500 002	
A-1103		PANEL : multiple sw panel; 52S-H34 aluminum, E finish; rectangular; 15. 750" lg × 4-21/64" wd × 0. 250" thk o/a; twelve 0. 128" diam mtg holes csk to 0. 230" diam spaced asymmetrically around cover; silk screened white letters and numerals 1/8" h; 2 captive preset nuts riveted and staked to cover; - Collins Rad part/dwg #504 8340 003	
A-1104		BRACKET : for channel sw; « U » shape; aluminum alloy 3 S half hard, anodized finish; 2-1/2" wd × 1. 500" d × 2-1/2 " h; four #4-40 tapped mtg holes spaced on 2" x 1.812" mtg/c ; mts 5 sw ; - Collins Rad part/dwg #504 8335 001	
A-1105		BRACKET : Same as A-1104	
A-1106		BRACKET : Same as A-1104	
A-1107		BRACKET : Same as A-1104	
A 1108		BRACKET : Same as A-1104	
A-1109		BRACKET : Same as A-1104	
A-1110		BRACKET : :for manual sw; « U » shape; aluminum alloy 3S half hard, anodized finish; 2-1/2" wd × 1. 500" d × 1/2" h; two #4-40 tapped mtg holes 1. 812" c to c; mts 1 sw; - Collins Rad part/dwg #504 8333 001	
A-1111		BRACKET : Same as A-1110	
A-1112		BRACKET : Same as A-1110	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
A-1113		COVER : for preset sw; aluminum, painted finish; rectangular; 15-3/4" lg × 4. 871" wd × 9/16" thk o/a; mtd by hinge with five 0. 140" diam mtg holes spaced 2. 187" c to c; plastic card for recording channel freq attached to cover, corprene gasket cemented to cover, 2 bushings riveted to cover - Collins Rad part/dwg #504 8348 003; (incl 6 H-1157, H-1166, H-1167, N-1105)	
A-1114		Not Used	
A-1115		COVER, ELECTRICAL CONNECTOR : anodized aluminum; rectangular; 1. 945" lg × 0. 758" wd × 2-1/16" h o/a; 2 mtg tabs tapped #4-40 NC-2 on inside of cover, one on each side, 5/8" diam cable opening ; black silk screening, 3/32" h, « P-1101 FREQUENCY SELECTOR »; incl two #4-40 NC-2 screws in cable clamp on top of cover; - Collins Rad part/dwg #505 1465 001	
A-1116		Not Used	
A-1117		BRACKET : relay, autopositioner; angle; passivated type #302 SS; 13/16" lg × 0. 974" wd × 0. 037" thk; mts by two 0. 125" diam holes 0. 656" c to c; four 0. 125" diam holes spaced on 0. 500" × 0. 375" mtg/c for mtg relay; - Collins Rad part/dwg #504 7472 002	
A-1118		BRACKET : Same as A-1117	
A-1119		BRACKET : Same as A-1117	
A-1120		BRACKET : Same as A-1117	
A-1121		PLATE, FRONT : for autopositioner; anodized aluminum; rectangular; 8-7/8" lg × 4-1/8" wd × 1/8" thk o/a; mts by four 0. 250" diam holes on top and two 0. 1875" diam holes on bottom; silk screened letters and numerals 3/32" h on front and back; - Collins Rad part/dwg #504 7534 005; (p/o O-1103 Next Higher Assembly)	
A-1122		STUD : :pawl; SS type #303; 1/2" lg × 1/4" OD o/a; 1/8" diam hole one end, 0. 019" wd groove 0. 045" from other end; - Collins Rad part/dwg #504 4918 001; (p/o O-1103 Next Higher Assembly)	
A-1123		STUD : Same as A-1122 (p/o O-1103 Next Higher Assembly)	
A-1124		STUD : Same as A-1122 (p/o O-1103 Next Higher Assembly)	
A-1125		STUD : Same as A-1122 (p/o O-1103 Next Higher Assembly)	
B-1101	7700- 572 300-638	MOTOR, ALTERNATING CURRENT : brush type series motor; 1/30 hp, 4,000 rpm max at rated output, output speed 4,000 to 5,000 rpm, governor used; 5,000 rpm max governed speed range; CCW rotation, viewed from shaft end of motor; precision bearings, lubricated for the life of the motor; closed frame; oper ambients minus 55°C to plus 81°C, non-oper ambients minus 65° C to plus 81°C; intermittant duty cycle : on 4-1/2 sec, off 10-1/2 sec and repeat; resists to mildew, humidity and RSW : w/o pulley, splined shaft, 13 teeth, 5/16" lg full tooth, 64 pitch, 0,203125" PD; 5-9/32" lg, excluding	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
		shaft, 2-1/4" max diam, 9/16" lg shaft protruding from one end of frame; 100 v min, 115 v nom, 125 v max, 50/60 cycles, single phase, 1. 35 amp, 0. 93 pf, 14. 4 oz-in load; mtd by four #10-24 NC-2 holes on 1. 340" × 1. 124" mtg/c; 3 color coded leads 9" lg; Collins Rad part/dwg #230 0144 00; (incl E-1113, E-1114) - used until stock is exhausted; future requirements under Collins Rad part/dwg #230 0260 00 (alternative 1)	
		(directly interch w/)	
		MOTOR, ALTERNATING CURRENT : brush type series motor; 1/18 hp, 4,000 rpm max at rated output, output speed 4,000 to 5,000 rpm, electro-mechanical speed regulator used; 5,000 rpm max regulated speed range; CCW rotation, viewed from shaft end of motor; double shielded ball bearing, lubricated for the life of the motor; closed frame; oper ambients minus 55°C to plus 81°C, non oper ambients minus 65°C to plus 81°C; intermittant duty cycle : on 4-1/2 sec, off 10-1/2 sec and repeat; resistant to mildew, humidity and RSW; w/o pulley splined shaft, 13 teeth, 0. 310" lg full tooth, 64 pitch, 0,203125" PD; 5-9/32" lg, excluding shaft, 2-1/4" max diam, 9/16" lg shaft protruding from one end of frame; 100 v min, 115 v nom, 125 v max, 50/60 cycles, single phase, 1.35 amp, 0.93 pf, 14. 4 oz-in load; mtd by four #10-24 NC-2B holes on 1. 340" × 1. 124" mtg/c; 3 color coded leads 9-1/4" lg; - Collins Rad part/dwg #230 0260 00; (preferred type) (alternative 2)	
C-1101	3330- 057 250 260	CAPACITOR, FIXED, PAPER DIELECTRIC : 100,000 mmf p/m 20 %; 400 vdcw; HS non-magnetic case; 1-3/8" lg × 0. 400" diam; impr w/ special h temp organic mat'l; two axial wire leads; term mtg; both ends floating; - Collins Rad part/dwg #931 0461 00	
C-1102		CAPACITOR : Same as C-1101	
C-1103		CAPACITOR : Same as C-1101	
C-1104		CAPACITOR : Same as C-1101	
E-1101		TERMINAL : Same as E-213	
E-1102		TERMINAL : Same as E-213	
E-1103		TERMINAL : Same as E-103	
E-1104		TERMINAL : Same as E-103	
E-1105		TERMINAL : Same as E-103	
E-1106		TERMINAL : Same as E-103	
E-1107		TERMINAL : Same as E-103	
E-1108		TERMINAL : Same as E-103	
E-1109		TERMINAL : Same as E-103	
E-1110		TERMINAL : Same as E-103	
E-1111		TERMINAL : Same as E-103	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
E-1112		KNOB : bar; black bakelite; for 0. 256" diam shaft; two #8-36 NF-2 tapped holes at 90 deg angle for fastening shaft; one arrow marking; 1-1/8" lg × 0. 750" wd × 11/16" d o/a; brass insert; 0. 531" d shaft hole; - Collins Rad part/dwg #508 1103 20	
E-1113		BRUSH, ELECTRICAL CONTACT : pos and neg governor section brushes; shunt stranded copper, term silver pl beryllium bronze, carbon brush; rectangular, 0. 312" lg × 0. 187" wd × 0. 187" thk shunt 1" lg; one end 0. 187" wd × 0. 187" h × 0. 312" lg mtg in brush holder; - Collins Rad part/dwg #234 0216 00; (p/o B-1101) (2 required per unit)	
E-1114		BRUSH, ELECTRICAL CONTACT : pos and neg motor input brushes; shunt and term stranded copper, term hot tin dipped, carbon brush; rectangular, 0. 250" lg × 0. 125" wd × 0. 310" thk, 1. 560" lg shunt; one end 0. 125" wd × 0. 250" lg × 0. 310" h mtd in brush holder; - Collins Rad part/dwg #234 0217 00; (p/o B-1101) (2 required per unit)	
H-1101		RING : Same as H-104 (24 each used) (2 p/o O-1104, 2 p/o O-1105, 2 p/o O-1106, 2 p/o O-1107)	
H-1102		WASHER : Same as H-103 (16 each used)	
H-1103		RING : Same as H-411 (8 each used)	
H-1104		WASHER : Same as H-406 (8 each used)	
H-1105		RING, RETAINER : for use on 0. 125" diam shaft; steel, cad pl; w/ 0. 017" groove wd; type #E ring; 0. 230" OD × 0. 094" ID × 0. 015" thk o/a; ring dehydrogenized after pl; - Collins Rad part/dwg #340 0087 00; (4 each used)	
H-1106		POST, SPACING : spaces motor plate from chassis, SS type #303; 0. 175" lg × 1/4" OD × 0. 147" ID; - Collins Rad part/dwg #504 7499 002; (3 each used)	
H-1107		SCREW : Same as H-107 (8 each used) (p/o O-1108)	
H-1108		WASHER : Same as H-106 (25 each used) (8 p/o O-1108)	
H-1109		NUT : Same as H-109 (8 each used) (p/o O-1108)	
H-1110		CLAMP : Same as H-112	
H-1111		CLAMP : Same as H-614	
H-1112		SCREW, MACHINE : Phillips drive, Bind H, unfinished; steel, cad pl; #6-32 NC-2A; 5/16" lg, threaded to head; head 0. 273" diam × 0. 099" thk; - Collins Rad part/dwg #343 0491 00; (2 each used)	
H-1113		WASHER, LOCK : type #41055; round, 5/16" OD, 0. 150" ID, 0. 020" thk; shakeproof type, tw ext teeth; - Collins Rad part/dwg #373 8020 00;(5 each used)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-1114		SCREW, MACHINE : Phillips drive, recessed pan head, unfinished, cold headed; steel cad pl; #4-40 NC-2A thd; 5/16" lg; threaded to head; head 0. 219" diam × 0. 080" thk; - Collins Rad part/dwg #343 0420 00; (6 each used)	
H-1115		WASHER, LOCK : type #410SS; round 1/4" OD, 0. 120" ID, 0. 016" thk; shakeproof type, tw ext teeth; - Collins Rad part/dwg #373 8010 00; (8 each used)	
H-1116		WASHER, FLAT: SS type #302; round, 13/16" OD, 0. 3140" ID, 0. 062" thk; - Collins Rad part/dwg 504 7468 001; (4 each used)	
H-1117		POST, SPACING : for autopositioner, plate assem; anodized aluminum; hex shape; 1. 330" lg × 3/8" hex; #8-32 NC-2 thd × 5/16" d mtg holes ea end; 0. 2495" diam × 0. 040" thk projection on ea end; - Collins Rad part/dwg #504 7464 001	
H-1118		POST, SPACING : for autopositioner, plate assem; anodized aluminum; 1. 250" lg o/a × 1/4" hex across flats; one 5/16" d mtg hole with #6-32 NC-2 thd each end; - Collins Rad part/dwg #504 7465 001; (2 each used)	
H-1119		POST, SPACING : for autopositioner, plate assem; anodized aluminum; 1. 102" lg × 3/8" hex across flats; one 5/16" d mtg hole each end w/ #8-32 NC-2 thd; - Collins Rad part/dwg #504 7466 001 (4 each used)	
H-1120		POST, SPACING : for autopositioner, plate assem; anodized aluminum; 0. 1062" lg × 1/4" hex across flats; one 5/16" d mtg hole each end w/ #6-32 NC-2 thd; - Collins Rad part/dwg #504 7467 001; (2 each used)	
H-1121		STUD : SS, plain finish; 3/4" lg × #8-32 NC-2 thd; entire portion threaded; - Collins Rad part/dwg #312 0097 00; (4 each used)	
H-1122		STUD : SS, plain finish; 3/4" lg × #6-32 NC-2 thd; entire portion threaded; - Collins Rad part/dwg #312 0078 00; (2 each used)	
H-1123		WASHER, FLAT : brass, nickel pl; round, 0. 172" ID, 0. 437" OD, 0. 036" thk; - Collins Rad part/dwg #310 0058 00; (4 each used)	
H-1124		SCREW : Same as H-612 (30 each used)	
H-1125		SCREW : Same as H-424 (7 each used)	
H-1126		NUT, PLAIN, HEXAGON : SS; 5/16" -24 UNF-2B thd; 0. 103" thk; 0. 500" wd across flats; single chamfer; - ACEC part/dwg #ACEC AP 347 096; (4 each used) (1 p/o O-1104, 1 p/o O-1105, 1 p/o O-1106, 1 p/o O-1107)	
H-1127		PIN : Same as H-405 (5 each used) (1 p/o O-1119, 1 p/o O-1120,, 1 p/o O-1122, 1 p/o O-1123)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-1128		NUT, ANCHOR : hex; SS, plain finish; #6-32 NC-2; 1/8" thk; 1/4" wd across flats; - Collins Rad part/dwg #334 0428 00; (5 each used) (p/o O-1124)	
H-1129		NUT, PLAIN, HEXAGON : cad pl steel; 3/8" -32 NEF-2; 3/32" thk; 1/2" wd across flats; single chamfer; - Collins Rad part/dwg #334 4062 00	
H-1130		WASHER, LOCK : type #410 SS; round, 11/16" OD, 0. 035" thk, shakeproof type, tw ext teeth; - Collins Rad part/dwg #373 8070 00	
H-1131		NUT : Same as H-532 (22 each used)	
H-1132		WASHER : Same as H-224 (22 each used)	
H-1133		STUD : SS type #303; passivated; 1-1/32" lg × 0. 187" diam o/a; #4-40 NC-2; one end threaded for 5/32", opposite end threaded for 1/8" - Collins Rad part/dw #504 7498 002; (4 each used)	
H-1134		WASHER : Same as H-421 (38 each used)	
H-1135		STUD : SS type #303; passivated; 0. 858" diam o/a; one end threaded for 1/8", other end threaded for 5/32" - Collins Rad part/dwg #504 7497 002; (2 each used)	
H-1136		STUD : SS type #303 passivated; 1. 108" lg × 0. 156" diam o/a #4-40 NC-2, one end threaded for 7/32", opposite end threaded for 1/8"; - Collins Rad part/dwg #504 7496 002; (2 each used)	
H-1137		POST, SPACING : for spacing sw pies; anodized aluminum; round; 0. 250" lg × 0. 156" OD; 0. 113" ID; - Collins Rad part/dwg #504 7492 002; (2 each used)	
H-1138		STUD : SS type #303; 1. 046" lg × 0. 187" diam o/o; #4-40 NC-2, one end threaded for 7/32", opposite end thd for 1/8"; - Collins Rad part/dwg #504 7495 002; (2 each used)	
H-1139		POST, SPACING : anodized aluminum; 0. 156" lg × 0. 156" OD, 0. 113" ID; - Collins Rad part/dwg #504 7473 002; (6 each used)	
H-1140		STUD : corrosion resistant steel; 1" lg × 0. 156" o/a #4-40 NC-2, one end threaded for 7/32", opposite end threaded for 9/64"; head 0. 187" diam × 0. 093" thk; - Collins Rad part/dwg #504 7494 002; (2 each used)	
H-1141		Not Used	
H-1142		Not Used	
H-1143		Not Used	
H-1144		POST, SPACING : resistor; anodized aluminum; cylindrical; 2-1/16" lg × 0. 230" OD; two tapped #8-32 NC-2, mtg holes, 5/16" d, one on ea end; - Collins Rad part/dwg #507 5779 00; (4 each used)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-1145		WASHER, FLAT : #1 India mica; round, 9/32" ID, 5/8" OD, 0. 050" thk; - Collins Rad part/dwg #302 2200 00; (40 each used)	
H-1146		WASHER : Same as H-105 (6 each used)	
H-1147		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; steel, cad pl; #8-32 NC-2; 5/16" lg; threaded to head; head 0. 322" diam × 0. 115" thk; - Collins Rad part/dwg #343 0522 00; (4 each used)	
H-1148		SCREW, MACHINE : Phillips drive; FH, unifinished; steel, cad pl; #8-32 NC-2; 3/8" lg; threaded to head; - Collins Rad part/dwg #342 0415 00; (6 each used)	
H-1149		SCREW : Same as H-423 (5 each used)	
H-1150		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; SS, plain finish; #6-32 NC-2; 7/16" lg; threaded to head; - Collins Rad part/dwg #343 0170 00; (3 each used)	
H-1151		SCREW, MACHINE : Phillips drive; FH, unfinished; steel, cad pl; #10-24 NC-2; 3/8" lg; threaded to head; - Collins Rad part/dwg #342 0477 00; (4 each used)	
H-1152		SCREW : Same as H-121 (2 each used)	
H-1153		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished; cold headed; cad pl steel; #8-32 NC-2; 7/16" lg; threaded to head; 0. 115" thk × 0. 321" diam head; - Collins Rad part/dwg #343 0526 00; (5 each used)	
H-1154		SCREW : Same as H-508 (4 each used)	
H-1155		WASHER, LOCK : SS, plain finish; round, 0. 145" ID, 0. 239" OD, 1/32" thk; #6 split lock; - Collins Rad part/dwg #340 0360 00; (4 each used)	
H-1156		SCREW : Same as H-240	
H-1157		WASHER, LOCK: SS type #410; round, 3/16" OD, 0. 086" ID, 0. 012" thk; shakeproof type, tw int teeth; for #2 screw; - Collins Rad part/dwg #373 8500 00; (11 each used) (6 p/o A-1113)	
H-1158		WASHER, FLAT : SS type #302, plain finish; round, 0. 250" OD, 0. 093" ID, 0. 027" thk; - Collins Rad part/dwg #310 0044 00	
H-1159		WASHER, LOCK : SS type #410; round, 3/8" OD, 0. 164" thk; shakeproof type, tw ext teeth; - Collins Rad part/dwg #373 8030 00; (3 each used)	
H-1160		SCREW, MACHINE : Phillips drive; FH unfinished; steel, cad pl; #8-32 NC-2; 7/16" lg; threaded to head; head 0. 332" diam × 0. 100" thk; - Collins Rad part/dwg #342 0417 00	
H-1161		WASHER, LOCK : SS type #410; cup shape 82 deg, 0. 357" OD, 0. 176" ID; shakeproof type, tw ext teeth; - Collins Rad part/dwg #373 0011 00	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-1162		SCREW, SET : Bristo multiple spline drive; headless; SS type #18-8; #8-36-NF-3; 3; 1/16" lg; cup point; - Collins Rad part/dwg #328 0021 00; (2 each used)	
H-1163		NUT, CAPTIVE : SS type #303, passivated; cylindrical; 5/16" OD × 0. 234" thk o/a; head 5/16" diam × 0. 125" thk; #8-32 NC-2 tapped hole, csk 82 deg to 0. 218" diam both ends; - Collins Rad part/dwg #504 8334 001	
H-1164		SCREW, MACHINE : Phillips drive, FH, unfinished cold headed; steel, cad pl; #4-40 NC-2 thd; 3/16" lg; threaded to head; - Collins Rad part/dwg #342 0274 00; (66 each used)	
H-1165		Not Used	
H-1166		SCREW : Same as H-5522 (6 each used) (6 p/o A-1113)	
H-1167		NUT : :Same as H-241 (6 each used) (6 p/o A-1113)	
H-1168		SCREW, CAPTIVE : knurled thumb head; passivated type #303 SS; #8-32 NC-2; 0. 968" lg o/a; 1/8" lg thd; 0. 638" diam × 0. 250" thk head; 7/16" diam × 3/16" thk shoulder; cone point - Collins Rad part/dwg #504 8336 002; (2 each used)	
H-1169		SCREW, SET : Bristol multiple spline drive; headless; type #410 SS; #6-40 ANF-3; 1/8" lg; cup point; - Collins Rad part/dwg #328 0019 00; (8 each used)	
H-1170		WASHER, FLAT : natural linen base bakelite; round 0. 859" ID × 1. 187" OD × 0. 070" thk; - Collins Rad part/dwg #502 1164 002; (4 each used) (1 p/o O-1104, 1 p/o O-1105, 1 p/o O-1106, 1 p/o O-1107)	
H-1171		SCREW, MACHINE : Phillips drive; recessed pan head, unfinished, cold headed; cad pl steel #4-40 NC-2; 1/8" lg; threaded to head; 0. 080" thk × 0. 219" diam head; - Collins Rad part/dw #343 0415 00 (16 each used)	
H-1172		NUT : Same as H-430 (2 each used)	
H-1173		SCREW, MACHINE : Phillips drive; Fil H; steel, cad pl; #4-40 NC-2; 1/4" lg; threaded to head; 0. 183" diam × 0. 107" thk head; - Collins Rad part/dwg #347 0291 00; (12 each used)	
H-1174		WASHER, FLAT : corr res steel, type #302, passivated round, 7/16" OD × 0. 257" ID × 0, 010" thk; - Collins Rad part/dwg #505 9208 001 (used only in the event that plate spacing posts are on their low limits)	
K-1101	5945-295-6776	RELAY, ARMATURE : cont arrangement 1A, 1B; contact rating 0. 5 amp, 140 v DC; fine silver cont, 1/8" diam; single wnd coil, 105 to 140 v DC, 300 ma max oper cur, 350 ohm p/m 10 %; wire lead term on coil; 1-13/16" lg × 1-15/32" h × 13/16" wd o/a; 4 mtg holes #4-40 NC-2 on 0. 378" × 0. 503" mtg/c; 4 opm max of 3 sec per operation; fp - Collins Rad part/dwg #470 0076 00	
K-1102		RELAY : Same as K-1101	
K-1103		RELAY : Same as K-1101	
K-1104		RELAY : Same as K-1101	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
N-1101		DIAL : channel selection; lusterless black aluminum dial, SS hub; round; 1-3/4'' OD × 5/16'' thk o/a, hub 7/16'' OD, 0. 156'' ID; two #6-40 NF-2 holes for shaft mtg; marked 2 to 10 and « R », « M », spaced 30 deg apart; - Collins Rad part/dwg #504 7505 002	
N-1102		DIAL : mc selection; lusterless black aluminum dial, anodized aluminum gear, SS hub; round; 1-3/4'' OD × 0. 359'' thk o/a, hub 7/16'' OD, 0. 156'' ID; shaft mtg; marked 22 to 39 spaced 20 deg apart; incl gear with 48 pitch, 0.6666'' PD, 32 teeth; - Collins Rad part/dwg #504 7504 002	
N-1103		DIAL : mc selection; lusterless black aluminum dial, SS hub; round; 1-3/4'' OD × 5/16'' thk o/a, hub 7/16'' OD, 0. 156'' ID; two #6-40 NF-2 holes for shaft mtg; ten numeral marked 0 to 9 spaced 30 deg apart; - Collins Rad part/dwg #504 7503 002	
N-1104		DIAL : mc selection; lusterless black aluminum dial, SS hub ; round; 1-3/4'' OD × 5/16'' thk o/a, hub 7/16'' OD, 0. 156'' ID; two #6-40 NF-2 holes for shaft mtg; ten numerals marked .0 to .9 spaced 30 deg apart; - Collins Rad part/dwg #504 7502 002	
N-1105		CHART : freq index; 1/16'' thk opaque graphic lamicoid; 4-5/16'' lg × 2-1/4'' wd, 1/8'' wd border around outside; white background w/ black painting; 10 spaces for channel freq mc; channels one to ten; six 0. 109'' diam holes for mtg to autopositioner; - Collins Rad part/dwg #504 8337 002; (p/o A-1113)	
O-1101		PAWL : for autopositionner; beryllium copper, chromium pl; 0. 0625'' thk, 1-/4'' lg × 1/4'' wd × 1/4'' h approx o/a; 0. 1255'' diam mtg holes; - Collins Rad part/dwg #503 5079 002; (4 each used)	
O-1102		GEAR, SPUR : anodized aluminum gear, passivated SS hub; dial drive; straight teeth; 64 teeth: 48 pitch, 1. 3333'' PD; 1. 437'' diam × 0. 032'' face wd; straight face; 7/16'' OD, 0. 156'' ID hub, extending 0. 030'' beyond face of gear; two #6-40 NF-2 holes for shaft mtg; - Collins Rad part/dwg #504 7506 002	
O-1103		PLATE, FRONT : autopositioner; 1/8'' thk anodized aluminum plate, 4 SS studs, 10 SS thimbles, 10 fl type powdered bronze oilite bearings; rectangular; 8-7/8'' lg × 4-1/8'' wd × 0. 500'' h o/a; two 0. 2500'' diam mtg holes spaced 8. 375'' 6. 313'' and 2. 062'' c to c; silk screened component designations; bearings and thimbles pressed into plate; studs pressed and staked; - Collins Rad part/dwg #504 7518 002; (incl A-1121, A-1122, A-1123, A-1124, A-1125, O-1113, O-1114)	
O-1104		DRUM, CLUTCH : (c/o 2 H-1101, 1 H-1126, 1 H-1170, O-1104A, O-1104B, O-1104C, O-1104D, O-1104E, O-1104F)	
O-1104A		DRUM, CLUTCH : drum for mechanical clutch; cold rolled type #302 SS; 1. 249'' OD × 0. 417'' thk; 0. 566'' ID for shaft mtg; -Collins Rad part/dwg #502 1132 002; (p/o O-1104)	
O-1104B		FLANGE, BEARING : u/w clutch; SS type #303; passivated round 0. 3135'' ID, 0. 843'' OD, 0. 093'' thk; fits in 0. 565'' diam hole; - Collins Rad part/dwg #503 4920 001; (p/o O-1104)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-1104C		GEAR SPUR : phosphor bronze gear, bakelite spacer, SS bearing; for clutch drum; straight teeth; 72 teeth; 48 pitch, 1. 500" PD, 0. 125" wd of face; 0. 330" lg × 1-17/32" OD; straight; hub 0. 239" lg × 0. 800" diam, 0. 2515" diam hole through ctr for mtg; - Collins Rad part/dwg #503 7091 002; (p/o O-1104)	
O-1104D		CLUTCH, FRICTION : w/ clutch lining, clutch shoe and solder strip; phosphor bronze; round; 1. 252" OD × 0. 320" d; secured in position by 3 clutch springs; - Collins Rad part/dwg #502 1825 002; (p/o O-1104)	
O-1104E	1600- 296 470 277	WASHER, SPRING TENSION : « C » shape; u/w friction clutch; steel, cad pl; 1. 156" diam × 0. 025" thk, w/ 27/32" wd opening; tension mtd by two 0. 048" wd notches spaced on 140 deg; - Collins Rad part/dwg #502 7029 002; (p/o O-1104)	
O-1104F		WASHER : Same as O-1104E (p/o O-1104)	
O-1105		DRUM, CLUTCH : (c/o 2 H-1101, 1 H-1126, 1 H-1170, O-1105A, O-1105B, O-1105C, O-1105D, O-1105E, O-1105F)	
O-1105A		DRUM : Same as O-1104A (p/o O-1105)	
O-1105B		FLANGE : Same as O/1104B (p/o O-1105)	
O-1105C		GEAR : Same as O-1104C (p/o O-1105)	
O-1105D		CLUTCH : Same as O-1104D (p/o O-1105)	
O-1105E		WASHER : Same as O-1104E (p/o O-1105)	
O-1105F		WASHER : Same as O-1104E (p/o O-1105)	
O-1106		DRUM, CLUTCH: (c/o 2 H-1101, 1 H-1126, 1 H-1170, O-1106A, O-1106B, O-1106C, O-1106D, O-1106E, O-1106F)	
O-1106A		DRUM : Same as O-1104A (p/o O-1106)	
O-1106B		FLANGE : Same as O-1104B (p/o O-1106)	
O-1106C		GEAR, SPUR : grade « A » phosphor bronze gear, PBE-P natural bakelite spacer; autopositionner #1; straight teeth; 72 teeth; 48 pitch, ,1. 500" PD; 0. 156" gear face wd; 1. 562" OD, 0. 2515" ID, 0. 484" thk; straight; plain oilite bronze bearing pressed flush into gear; shaft mtg; - Collins Rad part/dwg #504 7507 002; (p/o O-1106)	
O-1106D		CLUTCH : Same as O-1104D (p/o O-1106)	
O-1106E		WASHER : Same as O-1104E (p/o O-1106)	
O-1106F		WASHER : Same as O-1104E (p/o O-1106)	
O-1107		DRUM, CLUTCH : (c/o 2 H-1101, 1 H-1126, 1 H-1170, O-1107A, O-1107B, O-1107C, O-1107D, O-1107E, O-1107F)	
O-1107A		DRUM : Same as O-1104A (p/o O-1107)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-1107B		FLANGE : Same as O-1104B (p/o O-1107)	
O-1107C		GEAR : Same as O-1104C (p/o 0-1107)	
O-1107D		CLUTCH : Same as O-1104D (p/o O-1107)	
O-1107E		WASHER : Same as O-1104E (p/o O-1107)	
O-1107F		WASHER : Same as O-1104E (p/o O-1107)	
O-1108		CLAMP : (8 each used) (c/o O-1107, H-1108, H-1109, O-1108A)	
O-1108A		CLAMP : Same as H-108 (8 each used) (p/o O-1108)	
O-1109		GEAR, SPUR : anodized aluminum; straight teeth; 48 teeth; 48 pitch, 1.000" PD; 1-1/32" OD x 0.250" ID x 0.093" tooth face wd; straight face; 0. 312" diam × 0. 2195" thk hub, 4 slots 0. 032" wd × 0. 2045" d at 90 deg; shaft mtd; - Collins Rad part/dwg #504 7083 002; (4 each used)	
O-1110		GEAR, SPUR : anodized aluminum; straight teeth; 48 teeth; 48 pitch, 1. 000" PD; 1-1/32" OD × 0. 250" ID × 0. 093" tooth face face wd; straight face; 0. 437" diam × 0. 157" thk hub; shaft mtd; - Collins Rad part/dwg #504 7081 002	
O-1111		GEAR, SPUR : :SS type #303; idler; straight teeth; 30 teeth; 48 pitch, 0. 6250" PD; 0. 6875" OD × 0. 2495" ID × 0. 245" thk; straight face; shaft mtd; oilite bearing pressed into gear flush; - Collins Rad part/dwg #505 7470 001; (2 each used)	
O-1112		GEAR ASSEMBLY : idler; c/o two idler gears and one needle type bearing; approx 0. 875" OD × 0. 370" wd × 0. 1875" ID o/a; shaft mtd; - ACEC part/dwg #ACEC 504 7471 001, substitute for Collins Rad part/dwg #504 7471 001; (2 each used)	
O-1113		BEARING : (c/o O-1113A, O-1113B) (4 p/o O-1103)	
O-1113A		COLLAR, SPACING : bearing thimble; SS type #302 or #304; passivated; 0. 687" OD × 0. 135" thk; 0. 4985" ID for press fitting; - Collins Rad part/dwg #504 7157 002; (4 each used) (p/o O-1113)	
O-1113B		BEARING, SLEEVE : porous bronze ; 0.172" lg x 5/8" OD x 0. 376" ID; - Collins Rad part/dwg #309 0117 00; (4 each used) (p/o O-1113)	
O-1114		BEARING : (c/o O-1114A, O-111B) (p/o O-1103)	
O-1114A		RETAINER : Same as O-457 (16 each used) (6 p/o O-1103, 10 p/o O-1124)	
O-1114B		BEARING : porous bronze; 11/64" lg × 15/32" OD × 0. 251" ID ; - Collins Rad part/dwg #309 0086 00; (16 each used) (6 p/o O-1103, 10 p/o O-1124)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-1115		GEAR ASSEMBLY : idler; one gear SS, other gear anodized aluminum; two sur type gears with straight face, one with 24 teeth, 48 pitch, 0. 5000" PD, 0. 151" face wd, other gear with 48 teeth, 48 pitch, 1. 000" PD, 0. 125" face wd; 3/16" ID, 1. 062" OD, 0. 370" thk; shaft mtg; one oilite bearing pressed flush into gear; - Collins Rad part/dwg #504 7511 002; (2 each used)	
O-1116		GEAR ASSEMBLY : c/o two gears and one Needle type bearing; two spur type gears, one 0. 469" ID × 0. 125" tooth face wd, 64 pitch, 1. 000" PD teeth, other gear 0. 323" ID × 0. 183" tooth face wd, 48 pitch, 0. 5000" PD, 24 teeth; 1-2/32" OD × 0. 183" ID × 0. 370" max thickness o/a; single mtg hole 0. 1875" diam through ctr; - Collins Rad part/dwg #504 7469 001	
O-1117		GEAR, SPUR : SS shaft, chromate dipped phosphor bronze gear; drive, autopositioner; straight teeth, 48 teeth; 48 pitch, 1. 0000" PD, 0. 125" gear face wd; 1.062" OD × 1. 510" lg, shaft 0. 285" diam with two 0. 028" wd grooves, one 0. 167" from one end, other 0. 212" from other end; straight face; shaft mtg; - Collins Rad part/dwg #504 7512 002	
O-1118		GEAR, SPUR : anodized aluminum; straight teeth; 72 teeth; 48 pitch, 1. 5000" 1-17/32" OD × 0. 2500" ID × 0. 093" gear face wd; straight face; 0. 312" diam × 0. 219" thk hub, 4 lots 0. 032" wd × 0. 204" d at 90 deg; shaft mtg; - Collins Rad part/dwg #504 7090 002	
O-1119		GEAR, SPUR : anodized aluminum gear, passivated SS shaft; sw, channel; straight teeth; 48 teeth; 48 pitch, 1. 000' PD, 0. 093" gear face wd; 1. 046" OD × 2-1/2" lg, shaft 0. 1555" diam for 0. 250" lg, 1. 718" lg flatted, two grooves 0. 028" wd, one 1. 313" and one 2. 262" from end; straight face; 0. 437" diam × 0. 157" thk hub; shaft mtg; - Collins Rad part/dwg #504 7508 002; (incl 1 H-1127, O-1138, O-1139)	
O-1120		GEAR, SPUR : anodized aluminum gear, passivated SS shaft; u/w sw, straight teeth; 24 teeth; 48 pitch, 0. 5000" PD, 1/8" gear face wd; 0. 562" OD × 2. 437" lg, shaft 0. 1555" diam for 0. 218" lg, 0. 653" flatted shaft, two 0. 028" wd grooves, one 1. 316" from one end, other 0. 213" from other end; straight face; 3/8" OD, 0. 156" thk hub; shaft mtg - Collins Rad part/dwg #504 7513 002; (incl H-1127, O-1140, O-1141)	
O-1121		SHAFT : sw; SS type #303; cylindrical, 2-13/32" lg × 0. 249" OD; 0.1555" diam for 9/32" lg, 0. 559" lg with flatted sides, two 0. 028" wd grooves, one 1. 316", other 0. 213" from one end; - Collins Rad part/dwg #504 7488 002	
O-1122		GEAR, SPUR : anodized aluminum gear, passivated SS type #303 shaft; sw seeking; straight teeth; 48 teeth, 48 pitch, 1. 000"' PD, 0. 093" gear face wd; 1. 046" OD × 2-1/2" lg o/a, shaft, 0. 1555" diam for 9/32", 0. 653" lg flatted, two grooves 0. 028" wd, 1. 316" and 0. 213" from one end; straight face; 0. 437" diam × 0. 157" thk hub; shaft mtg; - Collins Rad part/dwg #504 7509 002; (incl H-1127, O-1142, O-1143)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-1123		GEAR, SPUR : passivated SS shaft, anodized aluminum gear; sw. seeking; straight teeth; 48 teeth; 48 pitch, 1. 000" PD, 0. 093" gear face wd; 1. 046" OD × 2-1/2" lg, shaft 0. 1555" diam for 9/32" lg, 0. 653" flatted shaft, two 0. 028" wd grooves 1. 316" and 0. 213" from one end; straight face; 0. 437" OD, 0. 157" thk hub; shaft mtg; - Collins Rad part/dwg #504 7510 002; (incl H-1127, O-1144, O-1145)	
O-1124		PLATE : gear, autopositioner; includes 1 plate, 8 idler posts, 10 oilite bearings, 10 bearing thimbles and 5 captive nuts; anodized aluminum; 8-7/8" lg × 4-1/8" wd × 1. 090" thk o/a; four 0. 250" diam mtg holes; upper holes located 3. 375" from bottom, 4. 250", c to c, one csk 82 deg to 0. 400" diam, the two others located 1. 937" from bottom, 8. 375" c to c; - Collins Rad part/dwg #504 7528 003; (incl H-1128, 10 O-1104A, 10 O-1114B, O-1146, O-1147, O-1148, O-1149, O-1150, O-1151, O-1152, O-1153, O-1154)	
O-1125		COUPLING, RIGID : split sleeve; SS type #303; 0. 250" shaft opening each end; clamp mtg; 1" diam × 0. 343" wd o/a; hub 0. 312" OD × 0. 218" lg; - Collins Rad part/dwg #504 7525 002; (3 each used)	
O-1126		WHEEL, DETENT : positioner #3; SS type 303, passivated; twelve 1/16" wd × 1/16" d slots equally spaced; round wheel w/ cylindrical shaft; 1. 005" OD × 1. 935" lg o/a, shaft 0. 257" diam w/ three 0. 028" wd grooves 0. 518", 1. 038" and 1. 373" from one end, 5/16" -24 NF-2 left hand thd, 1. 400" from same end; shaft mtg; - Collins Rad part/dwg #504 7516 002	
O-1127		WHEEL, DETENT : positioner #2; SS type #303, passivated; six 1/16" wd × 1/16" d slots equally spaced; round wheel w/ cylindrical shaft; 1. 000" OD × 1. 935" lg o/a, shaft 0. 257" diam w/three 0. 028" wd grooves 0. 518", 1. 038" and 1. 373" from one end, 5/16" 24 NF-2 left hand thd, 1.400" from same end, shaft mtg; - Collins Rad part/dwg #504 7515 002	
O-1128		WHEEL, DETENT : positioner #1; SS type #303, passivated; six 1/16" wd × 1/16" d slots equally spaced; round wheel w/ cylindrical shaft; 1. 000" OD × 1. 935" lg o/a, shaft 0. 257" diam w/ three 0. 028" wd grooves 0. 518", 0, 869" and 1. 373" from one end, 5/16" -24 NF-2 left hand thd, 1. 400" from same end; shaft mtg; - Collins Rad part/dwg #504 7514 002	
O-1129		WHEEL, DETENT : positioner #4; SS type #303, passivated; twelve 1/16" × 1/16" d slots equally spaced; round wheel w/ cylindrical shaft; 1. 005" OD × 1. 640" lg o/a; shaft 0. 257" diam w/three 0. 028" wd grooves 0. 223", 0. 743" and 1. 078" from one end, 5/16-24 NF-2 left hand thd, 1. 106" from same end; shaft mtg; - Collins Rad part/dwg #504 7517 002	
O-1130		BUSHING : for sw shaft; passivated SS type #303; male and female; 23/64" lg, 1/16" hex o/a, 0. 252" ID, 3/8" -32 NEF-2 thd; - Collins Rad part/dwg #504 7493 002	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-1131		NUT, LOCK : hex; brass, nickel pl; 3/8" -32 NEF-1; 0. 171" thk; 0. 625" wd across flats; syn rubber seal, dust and moisture proof, neoprene «O » ring; - Collins Rad part/dwg #334 0458 00	
O-1132		Not Used	
O-1133		Not Used	
O-1134		Not Used	
O-1135	6700 PE-291 755	WASHER, SPRING TENSION . clutch; cad pl spring steel; 1. 156" diam × 0. 035" thk; two 0. 048" wd slots, one on each side; - Collins Rad part/dwg #502 7030 002	
O-1136		WASHER : :Same as O-1135	
O-1137	6700 PE-291 754	WASHER, SPRING TENSION : clutch; cad pl spring steel; 1. 156" diam × 0. 0418" thk; two 0. 048" wd slots, one on each side; - Collins Rad part/dwg #502 7031 002	
O-1138		GEAR : Same as O-1110 (p/o O-1119 Next Higher Assembly)	
O-1139		SHAFT : switch; SS type #303; 2-1/2" lg × 0. 249" diam o/a; 0. 1555" diam for 0. 250" max diam flatted on opposite sides for 1-23/32", 2 grooves 0. 028" wd 1.187" and 2. 262" from one end; - Collins Rad part/dwg #504 7475 002; (p/o O-1119 Next Higher Assembly)	
O-1140		GEAR, SPUR : anodized aluminum; straight teeth; 24 teeth; 48 pitch, 0. 5000" PD; 17/32" OD × 0. 2500" ID × 1/8" tooth face wd; straight face; 3/8" diam × 0. 156" thk; shaft mtd; - Collins Rad part/dwg #504 7089 002; (p/o O-1120 Next Higher Assembly)	
O-1141		SHAFT: sw; SS type #303; cylindrical; 2. 437" lg × 0. 249" OD; #2-56 NC-2 × 3/16" d tapped hole; 0. 1555" diam for 0. 218" lg, 0. 653" lg with flatted sides, two 0. 028" wd grooves, 1. 316" and 0. 213" from one end; - Collins Rad part/dwg #504 7487 002; (p/o O-1120 Next Higher Assembly)	
O-1142		GEAR : Same as O-1110 (p/o O-1122 Next Higher Assembly)	
O-1143		SHAFT : switch; SS type #303; 0. 249" diam × 2-1/2" lg; two grooves 0. 028" wd, 0. 213" and 1. 316" from one end, 0. 1555" diam for 9/32", then shaft flatted on opposite sides for 0. 653" one end chamfered 0. 032" × 45 deg, other end chamfered 0. 015" × 45 deg; - Collins Rad part/dwg #504 7479 002; (p/o O-1122 Next Higher Assembly)	
O-1144		GEAR : Same as O-1110 (p/o O-1123 Next Higher Assembly)	
O-1145		SHAFT : Same as O-1143 (p/o O-1123 Next Higher Assembly)	
O-1146		SHAFT : for autopositioner #1; SS type #303, passivated; 3/8" diam × 0. 605" lg o/a; press mtd in 0. 251" diam hole; 0. 187" diam shaft w/one 0. 028" wd × 0. 020" d groove at 0. 016" from one end; both ends chamfered 0. 015" × 45 deg; - Collins Rad part/dwg #504 7462 001; (p/o O-1124 Next Higher Assembly)	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-1147		PLATE, BACK : for autopositioner; anodized aluminum; rectangular; 8-7/8" lg × 4-1/8" wd × 3/16" thk o/a; mts by four 0. 250" diam holes, five 0. 203" diam holes irregularly spaced; silk screened letters and numerals 3/32" h on front and back; - Collins Rad part/dwg #504 7536 005; (p/o O-1124 Next Higher Assembly)	
O-1148		SHAFT : for autopositioner #3; SS type 303, passivated; 1/2" max diam × 1. 059" lg o/a; press mtd in 0. 312" diam hole; both ends chamfered 0. 015" × 45 deg; - Collins Rad part/dwg #504 7477 002; (p/o O-1124 Next Higher Assembly)	
O-1149		SHAFT : Same as O-1146	
O-1150		SHAFT : for autopositioner #2; SS type #303, passivated; 0. 716" lg × 3/8" diam o/a; press mtd in 0. 187" diam hole; 0. 187" diam shaft w/one 0. 028" wd × 0. 020" d groove at 0. 046" from one end; - Collins Rad part/dwg #504 7463 001; (p/o O-1124 Next Higher Assembly)	
O-1151		SHAFT : Same as O-1148	
O-1152		SHAFT : Same as O-1148	
O-1153		SHAFT : Same as O-1150	
O-1154		SHAFT : Supports idler gear; corr res steel, passivated; 3/8" max diam × 0. 765" lg o/a; 0. 187" diam hole for press mtg; 0. 187" diam shaft w/one 0. 028" wd × 0. 020" d groove at 0. 095" from one end; - Collins Rad part/dwg #505 7214 002 (p/o O-1124 Next Higher Assembly)	
O-1155		GEAR, SPUR : type #303 steel, passivated; idler; involute teeth; 30 teeth; 48 pitch, 0. 6250" PD; 0. 687" OD × 0. 187' ID × 0. 370" thk; incl needle brg w/trunion type rollers; shaft mtd; - Collins Rad part/dwg #505 7215 002; (incl O-1156)	
O-1156		GEAR, SPUR : corr res steel., passivated; idler; involute teeth; 30 teeth; 48 pitch, 0. 6250" PD; 0. 687" OD × 0. 339" ID × 0. 370" thk; straight face; - Collins Rad part/dwg #505 7216 002; (p/o O-1155)	
P-1101	~~5905 PE-971 768~~	CONNECTOR : Same P-601	
R-1101	5905 PE-971 768	RESISTOR, FIXED, WIRE WOUND : JAN type RW32G311; 310 ohm p/m 5 %; 12 w at 275°C max continuous oper temp; 2" lg × 19/32" diam; vitreous coating; RSW, 2 radial tab term 36/64" lg × 17/64" wd; ctr hole 5/16" or term mtd; JAN spec JAN-R-26A; - Collins Rad part/dwg #747 1129 00	
R-1102		RESISTOR : Same as R-1101	
R-1103		RESISTOR : Same as R-1101	
R-1104		RESISTOR : Same as R-1101	

Reference Symbol No.	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
S-1101	3360- 073 111 000	SWITCH, ROTARY: 2 pole, 12 position; 2 sect; spring brass, silver pl cont; phenolic body; 1-5/16" h × 1-1/4" wd × 4-1/4" lg o/a; non-shorting type cont; solder lug term; single hole mtg bushing 3/8" -32 NEF-2 × 3/8" lg, 1/4" diam × 3-3/8" lg shaft, flush mtd; has 30 deg detent w/ no stops; - Collins Rad part/dwg #259 0429 00	
S-1102		SWITCH : (c/o S-1102A, S-1102B, S-1102C, S-1102D, S-1102E)	
S-1102A	3360- 073 360 220	SWITCH SECTION, ROTARY : wafer; glass bonded mica, grade L-4B insulation, spring silver alloy clips, coin silver alloy rotor blades; 1 pole, 12 position, shorting; round, flat; 1-5/16" diam o/a × 1/8" thk; 2 mtg holes 1. 031" c to c to pass #4 screws, ctr hole for shaft 0. 258" diam; 0. 250" lg × 0. 186" wd; - Collins Rad part-dwg #269 1304 00; (p/o S-1102)	
S-1102B	3360- 073 360 240	SWITCH SECTION, ROTARY : wafer; phenolic insulation, coin silver alloy rotor blade, spring silver alloy clips; 1 pole, 11 position, shorting; round, flat; 1-5/16" diam × 1/16" thk o/a; center hole for shaft 0. 258" diam 0. 250" lg × 0. 186" wd, 2 mtg holes to pass #4 screws 1. 031" c to c; - Collins Rad part/dwg #269 1301 00; (p/o S-1102)	
S-1102C	3360- 073 360 230	SWITCH SECTION, ROTARY : wafer; phenolic insulation, spring silver alloy clips, coin silver alloy rotor blades; 1 pole, 11 position, non-shorting; round, flat; 1-5/16" diam o/a × 1/16" thk; ctr hole for shaft 0. 258" diam; 0. 250" lg × 0. 186" wd, 2 mtg holes to pass #4 screws 1. 031" c to c; - Collins Rad part/dwg #269 1303 00; (p/o S-1102)	
S-1102D		SWITCH SECTION : Same as S-1102C (p/o S-1102)	
S-1102E		SWITCH SECTION : Same as S-1102C (p/o S-1102)	
S-1103		SWITCH : (c/o S-1103A, S-1103B)	
S-1103A	3360- 073 360 280	SWITCH SECTION, ROTARY : for rotary sw; glass bonded mica grade L-4B insulation, spring silver alloy cont, coin silver alloy rotor blades 1 pole, 9 position; flat round; 1-5/16" diam × 1/8" thk; 2 mtg holes 1. 031" c to c to pass #4 screws, ctr hole 0. 250" lg × 0. 186" wd for shaft mtg; shorting type cont, #11 and #12 in front have no clips; - Collins Rad part/dwg #269 1302 00; (p/o S-1103)	
S-1103B	3360- 073 360 290	SWITCH SECTION, ROTARY : for rotary sw; glass bonded mica grade L-4B insulation, spring silver alloy cont, coin silver alloy rotor blades; 1 pole, 9 position; flat round; 1-5/16" diam × 1/8" thk; 2 mtg holes 1. 031" c to c to pass #4 screws, ctr hole 0. 250" lg × 0. 186" diam for shaft mtg; shorting type cont, #7 and #8 in front have no clips; - Collins Rad part/dwg #269 1299 00; (p/o S-1103)	
S-1104	3360- 073 360 210	SWITCH SECTION, ROTARY : wafer; phenolic ins, spring silver alloy clips, coin silver alloy rotor blades; 1 pole, 12 position, shorting; round, flat; 1-5/16" diam o/a × 1/16" thk; ctr hole for shaft 0. 250" lg × 0. 186" wd, 2 mtg holes to pass #4 screws 1. 031" c to c; - Collins Rad part/dwg #269 1305 00	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
S-1105	3360- 073 360 270	SWITCH SECTION, ROTARY: wafer; phenolic insulation, spring silver alloy clips, coin silver alloy rotor blade; 1 pole, 10 position; flat, round; 1-5/16" diam x 1/16" thk; ctr hole for shaft 0.250" lg × 0. 186" wd, 2 mtg holes to pass #4 screws 1. 031" c to c; - Collins Rad part/dwg #269 1306 00	
S-1106		SWITCH SECTION : Same as S-1105	
S-1107	3360- 073 110 960	SWITCH, ROTARY : 1 pole, 20 position (18 throw); single sect; 0. 5 amp, 115 v DC; silver pl brass cont; laminated phenolic body; 3-3/32" h × 2-21/64" wd × 15/32" thk o/a; locking type; solder lug term; bracket mtg, by two screws into bracket; numbered 22 through 39 around the knob in white numerals; - Collins Rad part/dwg #259 0387 00	
S-1108		SWITCH : Same as S-1107	
S-1109		SWITCH : Same as S-1107	
S-1110		SWITCH : Same as S-1107	
S-1111		SWITCH : Same as S-1107	
S-1112		SWITCH : Same as S-1107	
S-1113		SWITCH : Same as S-1107	
S-1114		SWITCH : Same as S-1107	
S-1115		SWITCH : Same as S-1107	
S-1116		SWITCH : Same as S-1107	
S-1117		SWITCH : Same as S-1107	
S-1118	3360- 073 110 970	SWITCH, ROTARY : 1 pole, 20 position (10 throw); one sect; 0. 5 amp, 115 v DC; silver pl brass cont; laminated phenolic body; 2-7/8" h × 2-21/64" wd × 15/32" thk o/a; locking type; solder lug term; mtd by two screws in bkt; numbered 0 trough 9 twice around the knob in white numerals; - Collins Rad part/dwg #259 0388 00	
S-1119		SWITCH : Same as S-1118	
S-1120		SWITCH : Same as S-1118	
S-1121		SWITCH : Same as S-1118	
S-1122		SWITCH : Same as S-1118	
S-1123		SWITCH : Same as S-1118	
S-1124		SWITCH : Same as S-1118	
S-1125		SWITCH : Same as S-1118	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
S-1126		SWITCH : Same as S-1118	
S-1127		SWITCH : Same as S-1118	
S-1128		SWITCH : Same as S-1118	
S-1129	3360-073 110 980	SWITCH, ROTARY : 1 pole, 20 position (10 throw); single sect; 0. 5 amp, 115 v DC; silver pl brass cont; laminated phenolic body; 2-7/8" h × 2-21/64" wd × 15/32" thk o/a; locking type; solder lug term; bracket mtg by two screws in bracket; white numerals .0 through .9 twice around the knob; - Collins Rad part/dwg #259 0389 00	
S-1130		SWITCH : Same as S-1129	
S-1131		SWITCH : Same as S-1129	
S-1132		SWITCH : Same as S-1129	
S-1133		SWITCH : Same as S-1129	
S-1134		SWITCH : Same as S-1129	
S-1135		SWITCH : Same as S-1129	
S-1136		SWITCH : Same as S-1129	
S-1137		SWITCH : Same as S-1129	
S-1138		SWITCH : Same as S-1129	
S-1139		SWITCH : Same as S-1129	
A-1201		FRAME : fan motor frame used in blower assem; aluminum alloy, anodized finish; round; 4-5/8" OD × 1" d o/a; four #4-40 NC-2 × 7/32" min full thd mtg holes equally spaced on 4. 437" diam circle; - ACEC part/dwg #ACEC 504 9333 003, substitute for Collins Rad part/dwg #504 9333 003	
A-1202		COVER : for recessed panel; passivated type #303 SS sw cam and bushing, corprene gasket, aluminum plate and hinge painted olive drab; rectangular; 7" lg × 2-7/8" wd × 0. 844" d o/a; four 0. 125" diam holes csk to 0. 172" diam on hinge for mtg; - ACEC part/dwg #ACEC 505 0759 002, substitute for Collins Rad part/dwg #505 0759 002	
A-1203		FRAME: recessed panel; aluminum alloy, chromate dipped; rectangular; 7" lg × 2. 468" wd × 0. 750" d o/a; six 0. 140" diam mtg holes spaced asymmetrically around frame; - Collins Rad part/dwg #505 0770 003	
A-1204		PANEL : front panel for receiver; chromate dipped aluminum; rectangular; 19" lg × 12-7/32" wd × 1/4" thk o/a; eight 0. 218" diam holes for mtg; - Collins Rad part/dwg #505 8196 005	
A-1205		BRACKET : gasket retainer; angle shape; aluminum, chromate dipped; 17. 2065" lg × 7/16" wd × 5/16" d o/a; mts seven 0. 140" diam holes spaced 2. 437" c to c; - Collins Rad part/dwg #505 0782 003; (2 each used)	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
A-1206		BAR, GUIDE : anchors panel grounding spring strip; aluminum, chromate dipped; rectangular; 15. 937" lg × 7/16" wd × 1/4" d o/a; seven #4-40 tapped holes 3/16" d in one end, twelve #2-56 tapped holes 3/16" d other end for mtg; - Collins Rad part/dwg #505 0781 003 (2 each used)	
A-1207		BRACKET : mts pilot light sockets and capacitors; chromate dipped aluminum, 0. 032" thk; 2. 718" lg × 1" wd × 1. 063" d o/a; one 0. 125" diam mtg hole in corner of bkt which mts capacitors; two 25/32" diam holes for mtg sockets, two 0. 175" wd ×0. 221" lg holes for mtg capacitors, socket mtg bkt at right angles to capacitor mtg bkt; - Collins Rad part/dwg #505 0774 003	
A-1208		Not Used	
A-1209		PLATE, GEAR : gear plate for front aux; anodized aluminum; 4. 5838" lg × 2. 6562" wd × 1" h o/a; three 0. 2500" diam mtg holes in plate; black silk screened letters and numerals 0. 093" h on front and rear; 2 idler posts, 4 bearings, 2 sleeves and 2 bearing thimbles pressed into plate; - Collins Rad part/dwg #505 0722 002; (incl. O-1201A, O-1201B, O-1206A, O-1206B, O-1266A, O-1266B, O-1272A, O-1272B)	
A-1210		PLATE, GEAR : front gear plate; chromate dipped aluminum; rectangular w/ one cutout 1" wd × 1-1/8" d; 16" lg × 9. 421" wd ×0. 3125" thk o/a; eight tapped #8-32 NC-2 mtg holes, four on ea end spaced 2. 750" c to c; silk screened black letters and numerals 3/32" h on front and rear; incl 4 thimbles and flanged brg pressed into plate; - Collins Rad part/dwg #505 0744 004; (incl O-1276A, O-1276B, O-1278 A, O-1278 B, O-1280A, O-1280 B, O-1292A, O-1292B)	
A-1211		PLATE, FLOOR : rec; chromate dipped aluminum; rectangular; 16. 000" lg × 10. 500" wd × 0. 187" thk o/a; nineteen tapped #6-32 NC-2 ×5/16" min full thd holes around edge for mtg; outside edges of plate machined; - ACEC part/dwg #ACEC 505 0739 004, substitute for Collins Rad part/dwg #505 0739 004	
A-1212		BRACKET : right support, amplifier; « L » shape; chromate dipped aluminum alloy; 8-51/64" lg × 4. 352" wd ×2-29/64" h o/a; 3 mtg holes tapped #4-40 NC-2 on one side and 9 mtg holes tapped #6-32 NC-2, two on top, 3 on the end and 4 on other side; 2 rectangular cutouts 3" lg × 2-27/32" wd and 1 cutout 2-25/64" lg × 1" wd; ACEC part/dwg #ACEC 505 0740 003, substitute for Collins Rad part/dwg #505 0740 004	
A-1213		BRACKET : center support, amplifier; rectangular; chromate dipped aluminum alloy; 10. 500" lg × 4. 539" wd × 0. 571" h o/a; 6 mtg holes tapped #4-40 NC-2 on one side and 8 mtg holes tapped #6-32 NC-2, 3 on other side, 2 on one end and 3 on other end; 2 rectangular cutouts 2-27/32" lg × 2-31/32" wd and 1 cutout 2-11/16" lg × 1-5/16" wd, two 0. 156" diam holes csk to 0. 280" diam spaced 1. 500" c to c; - Collins Rad part/dwg #505 0741 004	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
A-1214		BRACKET : left support, amplifier; forms 2 opposite right angles; chromate dipped aluminum alloy; 10. 500" lg × 4. 539" wd 2-11/16" h o/a; 8 mtg holes tapped #6-32" × 5/16" d and 4 mtg holes tapped #4-40 × 1/4" d all spaced around edge of bracket; - Collins Rad part/dwg #505 0742 004	
A-1215		DUCT : anodized aluminum; rigid; rectangular, 4. 781" lg × 4-7/16" wd × 3-5/32" h o/a; 22 gauge aluminum; mtd by 4 holes, 2 in each mtg flange, air duct for cooling receiver; - Collins Rad part/dwg #505 0734 003	
A-1216		BRACKET : supports two armature relays; rectangular; chromate dipped aluminum; 3-5/16" lg × 1-23/32" wd × 1/2" h o/a; three 0. 171" diam mtg holes one in ea mtg flange; two 15/16" diam holes and six 0. 171" diam holes for mtg relays; - ACEC part/dwg #ACEC 505 0717 002, substitute for Collins Rad part/dwg #505 0717 002	
A-1217		Not Used	
A-1218		FRAME : right side of receiver; aluminum alloy, chromate dipped; rectangular; 19. 655" lg × 11. 672" wd × 0. 468" thk o/a; eight 0. 203" diam mtg holes, four located 3. 250" from one end, 2.750" c to c, four located 5.655" from other end, 2.750" c to c; - Collins Rad part/dwg #505 0669 005	
A-1219		FRAME : left side of receiver; aluminum alloy, chromate dipped; rectangular; 19. 655" lg × 11. 672" wd × 0. 468" thk o/a; eight 0. 203" diam mtg holes, four located 3. 250" from one end, 2. 750" c to c, four located 5. 655" from other end, 2. 750" c to c; - Collins Rad part/dwg #505 0916 005	
A-1220		PLATE, ANCHOR : anchors frame gnd spring; silver pl brass; flat, rectangular; 2-3/8" lg × 1/4" wd × 0. 032" thk; three 0. 109" diam mtg holes spaced 1. 062" c to c; - Collins Rad part/dwg #505 0732 002	
A-1221		PLATE : Same as A-1220	
A-1222		PLATE : Same as A-1220	
A-1223		PLATE : Same as A-1220	
A-1224		PLATE : Same as A-1220	
A-1225		PLATE : Same as A-1220	
A-1226		MOUNTING : Same as E-1001	
A-1227		Not Used	
A-1228		BRACKET : supports connector plate; angle shape; anodized aluminum; 7-1/4" lg × 1-7/16" wd ×3/8" h o/a; mts by six 0. 140" diam holes 3. 000" c to c; - Collins Rad part/dwg #505 0757 002	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
A-1229		BRACKET : mts single 20 pin connector; rectangular; chromate dipped aluminum; 2-1/2" lg × 1-1/4" wd × 1/2" d o/a; three 0. 172" diam mtg holes in side; 1 rectangular cutout 1. 953" lg × 0. 765" wd in top, two 0. 116" diam holes in top spaced 1. 620" c to c; - Collins Rad part/dwg #505 0755 002	
A-1230		BRACKET : mts connector, rectifier; « U » shape; chromate dipped aluminum; 2-7/8" lg × 1-9/16" wd × 1-1/4" d o/a; four 0. 156" diam mtg holes 2 in each mtg flange 0. 375" c to c; one rectangular cutout 1. 515" lg × 0. 765" wd, one rectangular cutout 1. 187" lg × 0. 765" wd in top, black silk screened figures 3/32" h on top, four 0. 116" diam holes in top; - Collins Rad part/dwg #505 0756 002	
A-1231		BRACKET : connector; rectangular; aluminum, chromate dipped; 7-1/2" lg × 1-1/2" wd × 2-3/8" d o/a; mtd by three #4-40 and two #6-32 self clinching fasteners; capacitor bkt, 3" lg × 1-3/16" wd × 1-1/2" d spotwelded to connector bkt, black silk screening 3/32" h; - ACEC part/dwg #ACEC 505 8183 003, substitute for Collins Rad part/dwg #505 8183 003	
A-1232		BRACKET : mts two 11 pin connectors; « C » shape; chromate dipped aluminum, 0. 064" thk; 4" lg × 1-1/8" wd × 1-1/8" h o/a; four 0. 156" diam mtg holes, 2 in each mtg flange spaced 0. 375" c to c; 1/2" diam eyelet spun into cable opening, 2 rectangular cutouts 1.187" lg × 0. 765" wd for mtg connectors, black silk screened letters and numerals 3/32" h, four 0. 116" diam holes on ctr line, each 2 spaced 0. 864" c to c; all on top of bkt; - Collins Rad part/dwg #505 0764 002	
A-1233		BRACKET : mts single 11 pin connectors; « C » shape; chromate dipped aluminum, 0. 064" thk; 2-5/16" lg × 1-1/8" wd × 1-1/8" d o/a; mtd by four self clinching fasteners tapped #4-40, two in each mtg flange; black silk screened letters and numerals 3/32" h, one 0. 345" diam eyelet spun into cable opening, 1 rectangular cutout 1. 187" lg × 0. 765" wd for mtg connector, two 0. 116" diam holes on ctr line spaced 0. 864" c to c, all on top of bkt; - Collins Rad part/dwg #505 0765 002	
A-1234		BRACKET : supports interlock sw; rectangular; anodized aluminum; 3-5/8" lg × 1-23/32" wd × 3/4" d o/a; two 0. 156" diam mtg holes 13/16" c to c; incl one eyelet on side and 4 fasteners on back, engraved and filled black 3/32" h and 7/64" h letters and markings on front and side of bkt; - Collins Rad part/dwg #505 0779 003	
A-1235		COVER : shields preset sw; anodized aluminum; rectangular; 16" lg × 2-5/8" wd × 13/16" h o/a; four fasterners #8-32 thd, 2 in each mtg flange; - Collins Rad part/dwg #505 0780 003	
A-1236		COVER : silver pl brass; 1. 187" lg × 1. 187" wd × 1-3/8" h o/a; four 0. 125" diam mtg holes spaced on 0. 906" × 0. 906" mtg/c; one 0. 125" diam hole and one 0. 250" diam hole; - Collins Rad part/dwg #505 0787 004; (p/o W-1201)	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
A-1237		BRACKET : retains gasket, right; angle; aluminum, chromate dipped 11-61/64" lg × 5/8" wd × 1/16" thk; four 0. 218" diam mtg holes spaced 3. 281 c to c; cork and syn rubber gasket cemented to bkt; - Collins Rad part/dwg #505 8202 003	
A-1238		BRACKET: retains gasket, left, angle; aluminum, chromate dipped; 11-61/64" lg × 5/8" wd × 1/16" thk; four 0. 218" diam holes for mtg spaced 3. 281" c to c; cork and syn rubber gasket cemented to bkt; - Collins Rad part/dwg #505 8203 003	
A-1239		COVER : for output term of main osc; chromate dipped aluminum; 2. 687" lg × 0. 657" wd × 1. 141" h o/a; four slots for mtg; - Collins Rad part/dwg # 505 0831 002	
A-1240		COVER : dust cover for rec; olive drab aluminum; rectangular; 17. 242" lg × 19. 801" wd × 12. 023" d o/a; schematic reverse etched w/ black background and low gloss anodized aluminum lines and characters; 2 schematic plates, for freq selector and multi channel receiver, ea marked w/ « PART OF R-278B/GR », riveted to cover; - ACEC part/dwg #ACEC 505 8189 004, substitute for Collins Rad part/dwg #505 8189 004	
A-1241		PLATE, BACK : for receiver, also holds tools, not incl; cad pl phosphor bronze holders, anodized aluminum plate; rectangular; 16-7/8" lg × 11-39/64" wd × 0. 937" thk o/a; eight 0. 344" diam mtg holes csk, spaced 4 in a row on 2 sides, 1/4" from edge; 4 springs for fasteners riveted to plate; - Collins Rad part/dwg #505 0840 004	
A-1242		CAP : dust cap for AN connectors with ext thd; aluminum, caustic dip; round; 1. 128" ID × 3/4" thk; mtd by 1-1/8" -NEF-2 int thd; - Collins Rad part/dwg #357 8205 00; (2 each used)	
A-1243		CAP : dust cap for AN connectors; with ext thd; aluminum, caustic dip; round; 1. 253" ID × 3/4" thk; mtd by 1-1/4" -18 NEF-2 int thd; - Collins Rad part/dwg #357 8206 00	
A-1244		CAP : dust cap for AN connectors with ext thd; aluminum, caustic dip; round; 0. 753" ID × 9/16" thk; mtd by 3/4" -20 NEF-2 int thd; - Collins Rad part/dwg #357 8202 00	
A-1245		PANEL : aluminum, olive drab finish; rectangular; 7" lg × 2-5/8" wd × 0. 080" thk; seven 0. 140" diam mtg holes irregularly spaced around edge; silk screened back markings black, front markings white, letters and figures 3/32" h; - Collins Rad part/dwg #505 8191 004	
A-1246		PLATE : Same as A-1220	
A-1247		PLATE : Same as A-1220	
A-1248		PLATE : Same as A-1220	
A-1249		PLATE : Same as A-1220	
A-1250		PLATE : Same as A-1220	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
A-1251		PLATE : Same as A-1220	
A-1252		PLATE : Same as A-1220	
A-1253		PLATE : Same as A-1220	
A-1254		PLATE : Same as A-1220	
A-1255		PLATE : Same as A-1220	
A-1256		PLATE : Same as A-1220	
A-1257		PLATE : Same as A-1220	
A-1258		POST, SUPPORTING : aluminum, chromate dipped; rectangular shape; 2. 687" lg × 0. 250" wd × 0. 250" h; two axial mtg holes one in ea end tapped #4-40 NC-2 × 3/8" d; « C-1227, C-1224, L-1204 » on one side and « L-1202, C-1226 » on other side silk screened 3/32" h; - Collins Rad part/dwg #505 9206 002	
A-1259		POST, SUPPORTING : aluminum, chromate dipped; rectangular shape; 2. 687" lg × 0. 250" wd × 0. 250" h; two #4-40 NC-2 axial holes tapped 3/8" d one in ea end for mtg; « L-1201, C-1225, L-1203" silk screened 3/32" h; - Collins Rad part/dwg #505 9205 002	
B-1201		MOTOR, AC : capacitor-start induction type; 1/300 hp, 3000 rpm, 60 cps; closed frame; operating ambients minus 55°C to plus 71°C, non-operating ambients minus 65°C to plus 85°C; resistant to mildew, humidity and RSW; pulley not included; shaft 0. 688" lg × 0. 250" diam w/ double flats; 2-47/74" d × 1-3/4" diam; 115 v 50/60 cps nominal, single phase; 3 mtg holes, tapped #6-32 NC-2, equally spaced on 1. 281" diam; lubricated bearings - Collins Rad part/dwg #230 0169 00; (alternative 2) OR	
B-1201	6105 PE- 081 306	MOTOR ALTERNATING CURRENT : capacitor start and run, induction type; AC, 115 v; 50/60 cps nominal, counter-clockwise rotation facing shaft end; w/o pulley; 1/300 hp at 3. 000 rpm 60 cps, closed frame; operating ambients -55° to plus 71°C, non-operating ambient -65°C to plus 85°C, resistant to mildew, RSW and RTH, 2-25/32" lg, 1-3/4" diam body excluding shaft and terminal; 15/16" lg shaft, double flatted; 0. 250" diam of shaft, laminated phenolic term board w/3 color coded terminal lug, located at opposite side of shaft; 3 mtg holes, tapped #6-32 NC-2 equally spaced on 1. 281" diam, precision bearings lubricated for the life of the motor, used in conjunction w/ blower assy Collins Rad part/dwg #009 1173 00; ACEC part/dwg #ACEC 230 0192 00, substitute for Collins Rad part dwg #230 0192 00; (alternative 1)	
C-1201		Not Used	
C-1202	3330 PE- 962 181	CAPACITOR, FIXED, PAPER DIELECTRIC : 1 section; 600 vdcw; 0. 1 mf, + 40 %, — 15 % tol; temp coef letter F; no int gnd connection; HS metallic, non-magnetic case; 1-13/16" lg × 1"	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
		wd × 3/4" h except term and mtg feet; two solder lug term, 3/4" max mtg feet even w/ bottom side, provided w/ 3/16" diam hole in ea, 2-1/8" c to c; - Collins Rad part/dwg #961 5116 00; JAN spec JAN-C-25, type CP54B1FF104X	
C-1203		Not Used	
C-1204		CAPACITOR : Same as C-204	
C-1205		CAPACITOR : Same as C-204	
C-1206		Not Used	
C-1207	3330- 314 693 496	CAPACITOR, FIXED, CERAMIC DIELECTRIC : feed-thru type; 500 vdcw; 1000 mmf ± 20 % tol; 2,5 % power factor, 5/16" hex 41/64" lg; two axial wire lead term, hooked at ea end; chassis mtd by #12-28 NS-2 bushing; furnished w/ mtg nut ; - Collins Rad part/dwg #913 0371 00	
C-1208		CAPACITOR : Same as C-1207	
C-1209		CAPACITOR : Same as C-1207	
C-1210		CAPACITOR : Same as C-1207	
C-1211		CAPACITOR : Same as C-1207	
C-1212		CAPACITOR : Same as C-1207	
C-1213		CAPACITOR : Same as C-1207	
C-1214		CAPACITOR : Same as C-1207	
C-1215		CAPACITOR : Same as C-1207	
C-1216		CAPACITOR : Same as C-1207	
C-1217		CAPACITOR : Same as C-1207	
C-1218		CAPACITOR : Same as C-1207	
C-1219		Not Used	
C-1220		CAPACITOR : Same as C-1207	
C-1221		CAPACITOR : Same as C-1207	
C-1222		CAPACITOR : Same as C-509	
C-1223	3330- 056 750 256	CAPACITOR, FIXED, PAPER DIELECTRIC : 1 section; 600 vdcw; 0. 1 mf ± 10 % tol; temp coef letter E; one end gnd; HS metallic, non-magnetic case; 1-13/16" lg × 1" wd × 3/4" h except term and mtg feet; two solder lug term, 3/4" max lg, 1-1/16" c to c, on one side of case; two mtg feet even w/ bottom side, provided w/ 3/16" diam hole in ea, 2-1/8" c to c; Collins Rad part/dwg #961 4123 00; JAN spec JAN-C-25, type CP53B2 EF104X	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
C-1224		CAPACITOR : Same as C-511	
C-1225		CAPACITOR : Same as C-511	
C-1226		CAPACITOR : Same as C-511	
C-1227		CAPACITOR : Same as C-511	
E-1201		KNOB : Same as E-1112 (3 each used)	
E-1202		TERMINAL : Same as E-103	
E-1203		Not Used	
E-1204		Not Used	
E-1205		Not Used	
E-1206		Not Used	
E-1207		Not Used	
E-1208 thru E-1219	5840-PE-910 505	CONTACT, ELECTRICAL : grounds panel to case; silver pl beryllium copper; rectangular w/ curved cont; 2-5/32" lg × 5/16" wd × 3/16" d o/a; two 0. 109" diam mtg holes spaced 1. 500" c to c; 10 cont each 3/16" wd separated by 9 slots each 1/32" wd; - Collins Rad part/dwg #505 0767 002	
E-1220 thru E-1231		PLATE : Same as A-108	
E-1232		PLATE, MOUNTING : mounts 14 capacitors; chromate dipped aluminum; rectangular; 5-7/8" lg × 1-5/8" wd × 1-1/8" d o/a; four 0. 156" diam mtg holes spaced on 4. 968" × 1. 062" mtg/c; black silk screened letters and numerals 3/32" h; 2 end plates spotwelded to mtg plate, one with 0. 265" diam hole; - Collins Rad part/dwg #505 5793 002	
E-1233		PLATE, GROUNDING : grounds inter-chassis; silver pl brass; rectangular with cutout on one side; 1-1/8" lg × 27/32" × 0. 016" thk o/a; four slots spaced on 0. 468" × 0. 750" mtg/c for mtg; - Collins Rad part/dwg #505 0832 002	
E-1234		PLATE : Same as E-1233	
E-1235	~~5340 PE-291 363~~ 5325 PE-290 501	FASTENER, SPRING TENSION, TRIM, steel cad pl, to be attached with 3/32" counter sunk head rivets; 1. 490" lg, 0. 562" wd, 0. 295" thk o/a; - Collins Rad part/dwg #012 1297 00	
F-1201 (115 v)	5920 PE-097 450	FUSE, CARTRIDGE : MIL spec MIL-F-15160, type F02G3R00A; 3 amp, blowing time, life at 110 %, 1 hr at 135 %, 0 to 60 sec at 200 % load; 250 v max; 0. 052 ohm approx resist; one time; glass body, ferrule term; 1/4" diam × 1-1/4" lg o/a; term 1/4" diam × 1/4" lg; - Collins Rad part/dwg #264 4080 00 (115 v operation)	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
F-1201 (230 v)	5920-142-6839	FUSE, CARTRIDGE : MIL spec MIL-F-15160, type F02G1R50A; 1. 5 amp, blowing time, life at 110 %, 1 hr at 135 %, 0 to 60 sec at 200 % load; 250 v max; 0. 15 ohm approx resist; one time; glass body, ferrule term; 1/4" diam × 1-1/4" lg o/a; term 1/4" diam × 1/4" lg; - Collins Rad part/dwg #264 4060 00; (230 v operation)	
F-1202 (115 v)	8870-112 000 252	FUSE, CARTRIDGE : MIL spec MIL-F-15160, type F02G5R00A; 5 amp, blowing time, life at 110 %, 1 hr at 135 %, 0 to 60 sec at 200 % load; 250 v max; 0. 03 ohm approx resist; one time; glass body, ferrule term; 1/4" diam × 1-1/4" lg o/a; term 1/4" diam × 1/4"; - Collins Rad part/dwg #264 4090 00; (115 v operation)	
F-1202 (230 v)		FUSE : Same as F-1201 (115 v); (230 v operation)	
H-1201		WASHER : Same as H-103 (6 each used)	
H-1202		RING : Same as H-104 (7 each used)	
H-1203		WASHER : Same as H-406 (2 each used)	
H-1204		RING : Same as H-411 (2 each used)	
H-1205		NUT, LOCK : hex; brass, nickel pl; 15/32" -32 NS-1; w/ rubber sleeve 11/32" h o/a, metal nut 13/64" h; 0. 750" wd across flats; syn rubber sleeve, dust and moisture proof, neoprene « O» ring; - Collins Rad part/dwg #334 0459 00; (5 each used)	
H-1206		NUT : Same as O-1131 (3 each used)	
H-1207		WASHER, FLAT : type #302 steel; round 1/2" OD, 0. 265" ID, 0. 031" thk; - Collins Rad part/dwg #505 0572 002 (10 each used)	
H-1208		WASHER : Same as H-102 (5 each used)	
H-1209		WASHER, FLAT : passivated steel, type #302; round, 5/8" OD, 0. 265" ID, 0. 031" thk; - Collins Rad part/dwg #505 0581 002; (2 each used)	
H-1210		PLATE, INDICATOR : alignment indicator mtg plate; steel cad pl; rectangular; 1-1/2" lg × 3/8" wd × 0. 059" thk; mtd by 2 holes, #4-40 NC-2, 1-1/8" c to c; - Collins Rad part/dwg #505 0604 002	
H-1211		POST, SPACING : gear plate spacer; aluminum, chromate dipped; round, post shape; 1. 561" lg × 3/8" diam o/a; tapped #8-32 NC-2 both ends for mtg; 0. 2493" diam × 0. 054" thk shoulder ea end; - Collins Rad part/dwg #505 0601 002; (2 each used)	
H-1212		POST, SPACING : gear plate spacer; aluminum, chromate dipped; round, post shape; 1. 453" lg × 3/8" diam; tapped #8-32 NC-2 both ends for mtg; - Collins Rad part/dwg #505 0602 002; (4 each used)	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-1213		RING, RETAINER : used on 0. 469" diam shaft; beryllium copper, plain finish; 0. 650" OD, 0. 428" ID, 0. 025" thk; 2 mtg holes; 0. 65" min clearance diam when ring is spread over shaft; - Collins Rad part/dwg #340 0047 00	
H-1214		SCREW : Same as H-118 (3 each used)	
H-1215		WASHER : Same as H-511 (3 each used)	
H-1216		SCREW, CAPTIVE : knurled thumb head; passivated SS type #303; #8-32 NC-2 thd; 0. 671" lg; 0. 125" lg thd; 1/4" thk × 0. 638" diam head; unthreaded 0. 281" lg × 0. 100" diam; - Collins Rad part/dwg #505 0750 001; (2 each used)	
H-1217		SCREW, MACHINE : Phillips drive; FH, unfinished; steel, cad pl; #4-40 NC-2; 7/16" lg; threaded to head; head 0. 225" diam × 0. 067" thk; - Collins Rad part/dwg #342 0282 00; (21 each used)	
H-1218		TERMINAL : Same as H-113 (15 each used)	
H-1219		SCREW : Same as H-1162 (6 each used)	
H-1220		NUT, PLAIN, HEXAGON : cad pl steel 15/32" -32 NS-2; 0. 103" thk; 0. 565" across flats; - Collins Rad part/dwg #334 0247 00; (3 each used)	
H-1221		NUT : Same as H-1129 (4 each used)	
H-1222		SCREW : Same as H-612 (9 each used)	
H-1223		WASHER : Same as H-914 (5 each used)	
H-1224		WASHER : Same as H-608 (4 each used)	
H-1225		WASHER : Same as H-413 (79 each used)	
H-1226		WASHER : Same as H-231 (14 each used)	
H-1227		POST, SPACING : spaces filter connector from panel; chromate dipped aluminum; hex cylindrical; 0. 990" lg × 1/4" across flats; one end tapped #4-40 NC-2 × 1/4" d, other end tapped #6-32 NC-2 × 1/4" d for mtg; - Collins Rad part/dwg #505 0725 002; (4 each used)	
H-1228		TERMINAL : Same as H-809 (8 each used)	
H-1229		Not Used	
H-1230		WASHER : Same H-106 (15 each used)	
H-1231		NUT : Same as H-241 (4 each used)	
H-1232		NUT : Same as H-430 (46 each used)	
H-1233		SCREW, MACHINE : Phillips drive; FH, unfinished; steel, cad pl; 1/4" -20 NC-2; 3/4" lg; threaded to head; head 0. 507" diam × 0. 153" thk; - Collins Rad part/dwg #342 0514 00; (4 each used)	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-1234		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; steel, cad pl; #6-32 NC-2A; 1/4" lg; threaded to head; head 0. 270" diam × 0. 097" thk; - Collins Rad part/dwg #343 0489 00; (49 each used)	
H-1235		SCREW : Same as H-121 (18 each used)	
H-1236		SCREW : Same as H-428 (6 each used)	
H-1237		SCREW : Same as H-522 (4 each used)	
H-1238		WASHER : Same as H-119 (94 each used)	
H-1239		HANDLE : for front panel; aluminum, finished w/ olive drab; 11-3/32" lg × 5/8" diam; 5/8" aluminum grip; one 1/4" -20 NC-2 thd × 5/8" d mtg hole ea end; mask material surrounding mtg holes before painting; - Collins Rad part/dwg #504 7847 002; (2 each used)	
H-1240	~~3320-003-201-950~~ 6700 PE-291 752	WASHER, FLAT : phenolic material; round, 0. 375" ID, 0. 875" OD, 0. 062" thk; - Collins Rad part/dwg #504 7592 001 (2 each used)	
H-1241		SCREW, MACHINE : Phillips drive; FH, unfinished; steel, cad pl; #2-56 NC-2; 3/16" lg; threaded to head; head 0. 172" diam 0. 051" thk; - Collins Rad part/dwg #342 0345 00; (4 each used)	
H-1242		SCREW : Same as H-107 (10 each used)	
H-1243		NUT : Same as H-109 (10 each used)	
H-1244		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; cad steel #8-32 NC-2; 3/8" lg; threaded to head; 0. 115" thk × 0. 321" diam head; - Collins Rad part/dwg #343 0524 00; (3 each used)	
H-1245		WASHER : Same as H-1011 (40 each used)	
H-1246		POST, SPACING : spacer; anodized aluminum: hex shape; 0. 749" lg × 0. 375" across flats including shoulders; tapped #8-32 NC-2 x 1/4" min d, both ends; shoulders 0.062" thk x 0.2495" OD; ACEC part/dwg #ACEC 505 0716 002; substitute for Collins Rad part/dwg #505 0716 002; (3 each used)	
H-1247		SCREW : Same as H-1153 (5 each used)	
H-1248		RING : Same as H-203 (12 each used)	
H-1249		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; steel, cad pl; #8-32 NC-2; 5/8" lg; threaded to head; head 0. 321" diam × 0. 115" thk; - Collins Rad part/dwg #343 0530 00; (30 each used)	
H-1250		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; steel, cad pl; #8-32 NC-2; 1/2" lg; threaded to head; 0. 321" diam × 0. 115" thk head; - Collins Rad part/dwg #393 0528 00; (2 each used)	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-1251		PIN, TAPER : SS, plain; #6/0; 0. 078" diam largest end, 3/8" lg o/a; - Collins Rad part/dwg 311 6003 00; (4 each used)	
H-1252		NUT : Same as H-115; (7 each used)	
H-1253		SCREW, MACHINE : Phillips drive; FH, unfinished; steel, cad pl; #6-32 NC-2; 7/16" lg; threaded to head; - Collins Rad part/dwg #342 0386 00; (10 each used)	
H-1254		SCREW, MACHINE : Phillips drive; FH, unfinished; steel, cad pl; #6-32; 3/4" lg; threaded to head; - Collins Rad part/dwg #342 0392 00; (2 each used)	
H-1255		SCREW : Same as H-424 (14 each used)	
H-1256		SCREW : Same as H-1112; (4 each used)	
H-1257		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; cad pl steel; #6-32 NC-2; 1/2" lg; threaded to head; 0.097" thk × 0. 270" diam head; Collins Rad part/dwg #343 0497 00; (34 each used)	
H-1258		POST, SPACING : spaces main drive gear assem from freq selector assem; anodized aluminum; hex cylindrical; 0. 245" diam × 15/16" lg, 5/16" wd across flats × 3. 687" lg; one end tapped #8-32 NC-2 for mtg; other end tapped #6-32 NC-2; - Collins Rad part/dwg #505 1500 002; (2 each used)	
H-1259		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; steel, cad pl; #6-32 NC-2; 5/8" lg; threaded to head; head 0. 270" diam × 0. 097" thk; - Collins Rad part/dwg #343 0490 00; (4 each used)	
H-1260		Not Used	
H-1261		SCREW, MACHINE : Phillips drive; FH; steel, cad pl; #8-32 NC-2; 3/4" lg; threaded to head; - Collins Rad part/dwg #342 0423 00; (2 each used)	
H-1262		Not Used	
H-1263		SCREW : Same as H-417 (20 each used)	
H-1264		SCREW : Same as H-423 (12 each used)	
H-1265		CLAMP : Same as H-112 (7 each used)	
H-1266		CLAMP : Same as H-234 (2 each used)	
H-1267		CLAMP : Same as H-614 (3 each used)	
H-1268		CLAMP : Same as H-813 (5 each used)	
H-1269		CLAMP : Same as H-803 (4 each used)	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-1270		HANDLE : switch; phenolic; 15/16" lg × 3/8" diam o/a; metal insert tapped #6-32 NC-2 in end of handle; black color; - Collins Rad part/dwg #281 0199 00	
H-1271		WASHER : Same as H-927; (8 each used)	
H-1272		SCREW : Same as H-426 (15 each used)	
H-1273		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished; cold headed steel, cad pl; #6-32 NC-2; 3/16" lg; threaded to head; 0. 097" thk × 0. 270" diam head; - Collins Rad part/dwg #343 0487 00; (2 each used)	
H-1274		SCREW : Same as H-508 (7 each used)	
H-1275		SCREW, MACHINE : Phillips drive; recessed pan head; unfinished, cold headed; steel, cad pl; #10-24 NC-2; 3/4" lg; threaded to head; head 0. 373" diam × 0. 133" thk; - Collins Rad part/dwg #343 0594 00; (8 each used)	
H-1276		SCREW, MACHINE : Phillips drive; Fil H; steel, cad pl; #6-32; 3/8" lg; threaded to head; - Collins Rad part/dwg #347 0328 00	
H-1277		WASHER : Same as H-1130	
H-1278		TERMINAL, LUG : solder type; tinned brass; 7/16" lg × 1/4" wd × 0. 020" thk o/a w/ 1/8" stud hole; solder connects to wire; - Collins Rad part/dwg #304 6300 00; (2 each used)	
H-1279		SCREW : Same as H-1148 (2 each used)	
H-1280		SCREW : Same as H-110 (8 each used)	
H-1281		WASHER : Same as H-111 (8 each used)	
H-1282		WASHER, LOCK : cad pl steel; csk 11/32" OD, 0. 018" thk; shakeproof type, tw ext teeth; for screw size #8; - Collins Rad part/dwg #373 0053 00 (9 each used)	
H-1283		CLAMP : cable; CRS; cad pl; one bolt employed, not included; 0. 813" lg × 11/32" wd × 0. 282" h o/a, one 0. 149" diam mtg hole; will hold 1/2" diam cable; - Collins Rad part/dwg #505 2699 002	
H-1284		WASHER : Same as H-1157 (48 each used)	
H-1285		SCREW : Same as H-240 (16 each used)	
H-1286		WASHER : Same as H-243 (18 each used)	
H-1287		Not Used	
H-1288		WASHER : Same as H-1155 (17 each used)	
H-1289		NUT, PLAIN, ROUND : SS type #303, passivated; #8-32 NC-2; 0. 203" thk; 0. 300" OD; to be riveted and staked into hole in panel; - Collins Rad part/dwg #505 0749 001; (2 each used)	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-1290		SCREW : Same as H-1160	
H-1291		WASHER : Same as H-242 (2 each used)	
H-1292		NUT : :Same as H-204 (2 each used)	
H-1293		WASHER : Same as H-439	
H-1294		SCREW, MACHINE : Phillips drive, recessed pan head, unfinished, cold headed; brass, nickel pl; #2-56 NC-2; 5/16" lg; threaded to head; head 0. 167" diam × 0. 062" thk; - Collins Rad part/dwg #343 0458 00	
H-1295		WASHER : Same as H-440	
H-1296		WASHER, FLAT : commercial brass, chemical polish; round, 0. 437" OD, 0. 255" ID, 0. 005" thk; - Collins Rad part/dwg #506 6887 002; (2 each used)	
H-1297		WASHER, LOCK : SS type #302, plain finish; round 0. 169" ID, 0. 263" OD, 3/64" thk; split-ring type; - Collins Rad part/dwg #310 0072 00; (2 each used)	
H-1298		SCREW, MACHINE : Philips drive; Bind H; unfinished, steel, cad pl; #8-32 NC-2A thd, 1/4" lg; thd to head; head 0. 321" diam × 0. 115" thk; - Collins Rad part/dwg #343 0520 00; (2 each used)	
H-1299		HOLDER, TOOL, holds four differents tools; phosphor bronze, 0. 020 " thk; cad pl; spring type holder; 2-1/8" lg × 25/32" wd 11/16" h o/a; rectangular mtg base w/ four rounded tabs bent at 60 deg angle ea side, sym, one facing the other w/ 0.082", 0. 101", 0. 116" and 0. 199" diam hole in ctr; four mtg holes spaced 1" × 1/2" c to c; Collins Rad part/dwg #505 0826 002	
H-1299.1		HOLDER, WRENCH : phosphor bronze, cad pl; rectangular w/ both ends bent at 45 deg angle; 3. 875" lg × 5/8" wd × 0. 802" h o/a; two 0. 140" diam holes on 1. 250" mtg/c; two slots 0. 171" wd × 0. 441" d, one in ea angle; - Collins Rad part/dwg #505 0834 003	
H-1299.2		HOLDER TOOL : holds tuning tool; phosphor bronze; 0. 020" thk, cad pl ;spring type holder; 3-7/8" x 5/8" wd x 1" h o/a; ea end bent at 45 deg angle for 1-1/8" lg; two slots 5/16" x 0.140" wd to slide tool; two 0.140" diam holes spaced 1.250" c to c, for mtg; - Collins Rad part/dwg #505 0835 003	
H-1299.3		SCREW, MACHINE : Phillips drive; FH; unfinished, cold headed steel, cad pl; #4-40 NC-2A, 7/8" lg; thd to head; head 0. 225" diam × 0. 067" thk; - Collins Rad part/dwg #342 0290 00; (4 each used)	
H-1299.4		POST, SPACING : spaces wrench holder from rear plate; anodized aluminum; cyl, 0. 500" lg × 1/4" diam, 0. 134" diam hole through ctr; - Collins Rad part/dwg #502 1673 001; (4 each used)	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-1299.5		SCREW, MACHINE : Phillips drive; FH; unfinished, cold headed steel, cad pl; #4-40 NC-2A, 3/8" lg; thd to head, head 0. 225" diam × 0. 067" thk; - Collins Rad part/dwg #342 0280 00; (4 each used)	
I-1201		Not Used	
I-1202	6210-PE- 081 155	LENS, INDICATOR LIGHT : green; thd type; 1/2" diam frosted glass disk lens; bezel 15/16" OD, 3/16" lg shank, 9/16" -27 NS-2 thd; dull black finish; polaroid; - Collins Rad part/dwg #262 0116 00	
I-1203	6210-PE- 081 154	LENS, INDICATOR LIGHT : amber; dimmer type; polaroid type K material frosted finish, 1/2" diam; 15/16" lg bezel, thd 9/16" -27 NS-2 thd; dull black metal; - Collins Rad part/dwg #262 0115 00	
I-1204	8870- 938 000-375	LAMP, INCANDESCENT : 6. 3 v, 0. 15 amp; bulb T-31/4 clear; 1-1/8" lg o/a; miniature bayonet base; tungsten filament; burn any position; - Collins Rad part/dwg #262 3240 00	
I-1205		Not Used	
I-1206		LAMP : Same as I-1204	
J-1201	8850- 578 125	CONNECTOR, RECEPTACLE, ELECTRICAL : 11 female pol cont; straight; 1. 171" lg × 3/4" wd × 0. 415" h, less cont; rectangular phenolic body; two 1/4" diam eyelets for #4 screw, spaced 0. 864" c to c for mtg; beryllium copper silver or gold over silver pl term; - Collins Rad part/dwg #372 1076 00	
J-1202		CONNECTOR : Same as J-1201	
J-1203	8850- 596 175	CONNECTOR, RECEPTACLE, ELECTRICAL : 20 round female cont; straight; 1-15/16" lg × 3/4" wd × 0. 415" thk, less cont; rectangular metal body; phenolic insert; two 1/4" diam mtg holes spaced 1. 620" c to c; beryllium copper silver or gold over silver pl term; - Collins Rad part/dwg #372 1071 00	
J-1204		CONNECTOR : Same as J-1201	
J-1205		CONNECTOR : Same as J-1201	
J-1206		CONNECTOR : Same as J-1203	
J-1207		Not Used	
J-1208		CONNECTOR : Same as J-1203	
J-1209	~~8850-~~ ~~586 740~~ 5935 PE- 092 320	CONNECTOR, RECEPTACLE, ELECTRICAL : 15 female pol cont; straight; 1-1/2" lg × 3/4" wd × 0. 415" h, less cont; 3 cont 15 amp, 12 cont 5 amp; rectangular phenolic body; two 0. 140" diam mtg holes for #6 screws, spaced 1. 188" c to c; beryllium copper, gold over silver pl term; ACEC part/dwg # 372 1081 00, substitute for Collins Rad part/dwg #372 1081 00	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
J-1210		CONNECTOR : Same as J-1201	
J-1211		CONNECTOR : Same as J-1203	
J-1212	5935- 259-4116	CONNECTOR, RECEPTACLE, ELECTRICAL : 1 round female cont; straight; 1-3/8" lg × 1-3/16" wd × 1-3/16" h less cont; cylindrical metal body threaded 3/4" -20 NEF-2 for locking; teflon insert; cable opening 23/32" diam; metal mtg w/ four 0. 125" diam holes on 0. 906" × 0. 906" mtg/c; Special Cable tapering tool MX-102/U used for assembly; - Collins Rad part/dwg #357 9037 00; (p/o W-1201)	
J-1213	5935 PE- 094 232	JACK, TELEPHONE : Navy type #49910; for 2 cond plug 1/4" diam barrel; 1-5/16" lg × 3/4" diam; cont arrangement J11; incl 3/8" - 32NEF - 2 mtg bushing 3/8" lg, 1 washer and 1 hex nut; 1/4" diam mtg hole; w/ non-turn pin at 1 o'clock on 0. 219" rad; - Collins Rad part/dwg #358 1080 00	
J-1214	5935 PE- 092 313	CONNECTOR, RECEPTACLE, ELECTRICAL : 14 round female pol cont; straight; 1. 285" OD × 1-11/16" lg excluding term and mtg fl; 150 V AC RMS; cylindrical aluminum body 1-1/4" -18 NEF-2 thd for locking; phenolic insert; 1. 058" diam cable opening; four 0. 120" diam mtg holes, 1. 156" × 1. 156" mtg/c; AN3102A-20-27S; Collins Rad part/dwg #357 2020 00; Spec MIL-C-5015, Air Force-Navy Aeronauntical dwg AN3102 and AND10430	
J-1215	5935 PE- 092 317	CONNECTOR, RECEPTACLE, ELECTRICAL : 10 round female pol cont; straight; 1. 156" OD × 1-3/4" lg; 200 v AC RMS; cylindrical aluminum body 1-1/8"-18 NEF-2 thd for locking; phenolic insert; 0. 932" diam cable opening; four 0. 120" diam mtg holes, 1-1/16" × 1-1/16" mtg/c; AN3102A-18-1S; - Collins Rad part/dwg #357 2015 00, Air Force-Navy Military spec MIL-C-5015; Air Force-Navy Aeronautical dwg AN3102 and AND10429	
J-1216	8850- 506 620-52	CONNECTOR, RECEPTACLE, ELECTRICAL : two round male pol contacts; straight type; 1. 156" OD × 1-11/16" lg excluding term and mtg fl; cylindrical aluminum alloy body, 1-1/8" NEF-2 thd for locking molded phenolic insert; 0. 932" diam cable opening; mtg fl 1-3/8" × 1-3/8" w/ four 0. 120" diam holes on 1-1/16" × 1-1/16" mtg/c; AN3102A-18-3P; - Collins Rad part/dwg #357 3023 00; Air Force-Navy Military spec MIL-C-5015, Air Force-Navy Aeronautical drawings AN3102 and AND10429	
J-1217		Not Used	
J-1218		CONNECTOR : Same as J-405	
K-1201	3380- ~~555-680~~ 555680-4395	RELAY, ARMATURE : cont arrangement 1 C; cont rating 150 v DC, 30 w inductive; pure fine silver or palladium cont; single wnd, 115 vdcw nom, 150 v DC max, pull-in v 53 v DC, drop-out v 40 v DC max, 4, 000 ohm p/m 10 %, ins; solder type term; 1-19/32" lg × 1-7/16" wd × 2-1/16" d case; three #6-32 NC-2 studs, forming isosceles triangle on 15/16" × 1-3/16" mtg/c on base; fast acting; HS case, term identification incl; - Collins Rad part/dwg #974 0046 00	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
K-1202	5945- 549-9968	RELAY, ARMATURE : cont arrangement 1A, 1C cont rating 1A-115 v AC at 5 amp, 1C-250 v DC at 0. 25 amp; palladium audio cont, others pure fine silver or palladium; single wnd, 115 vdcw nom, 125 v DC max, pull-in v 79 v DC, drop-out v 58 v DC max, 10,000 ohm p/m 25 %, ins; solder term; 1-19/32" lg × 1-7/16" wd × 2-1/16" d case three #6-32 NC-2 studs forming isosceles triangle on 15/16" × 1-3/16" mtg/c on base; fast acting; HS case, schematic on case; - Collins Rad part/dwg #974 0048 00	
L-1201	3340- 060 701 800	COIL, RADIO FREQUENCY : choke; single wnd, single layer wnd; shielded, silicone saturated fiberglas sleeving; 6. 2 uh p/m 10 % at 10 mc, 25 close wnd turns #20 ga enameled wire; 1-1/16" lg × 0. 382" OD less term and mtg attachments; powdered iron form and core; form 0. 250" OD × 1" lg less term; 0. 851" lg pigtail ea end; 2 axial wire lead term; 2 dots, one red, one blue, painted on shield; - Collins Rad part/dwg #505 4385 002	
L-1202	3340- 060 701 810	COIL, RADIO FREQUENCY : choke; single wnd, single layer wnd; shielded, silicone saturated fiberglas sleeving; 9. 2 uh p/m 10 % at 9 mc, 30 close wnd turns #22 ga enameled wire; 1-1/16" lg × 0. 382" OD less term and mtg attachments; powdered iron form and core; form 0. 250" OD × 1" lg less term; 1" lg pigtail ea end; 2 axial wire lead term; 2 dots, one white, one red, painted on shield; - Collins Rad part/dwg #505 4386 002	
L-1203		COIL : Same as L-1202	
L-1204		COIL : Same as L-1202	
N-1201		PLATE. INDICATOR : indicates setting of gear in main gear assembly; molded clear plastic; 2-1/4" lg × 1-3/32" h o/a; mtd by two 0. 250" diam holes spaced 1-1/8" c to c, 7/32" from bottom; 45 deg « V » groove centered on back side, filled w/ black lacquer; - Collins Rad part/dwg #505 0595 002	
N-1202		PLATE, INDICATOR : indicates voltage; 52S-H34 aluminum, olive drab finish; rectangular; 3/4" lg x 3/16" wd x 0.050" thk : two 0. 093" diam mtg holes spaced 0. 562" c to c; engraved 3/32" h numerals « 230V » on one side, « 115V » on other side - Collins Rad part/dwg #505 0760 002	
N-1203		PLATE, INDICATOR : reference mark for mechanical alignment of couplers; anodized aluminum; square; 1/4" lg × 1/4" wd × 0. 267" d o/a; 0. 125" diam hole csk to 0. 240" diam for mtg; engraved line 0. 101" wd filled black on one side of plate; - Collins Rad part/dwg #505 0726 002	
N-1204		PLATE : Same as N-1203	
N-1205		PLATE : Same as N-1203	
N-1206		PLATE, IDENTIFICATION : low gloss anodized aluminum; 3-1/2" lg × 1" wd × 0. 032" thk; inscribed « RADIO RECEIVER R-278 B/GR »; white markings w/ dull black background; four 0. 096" diam mtg holes on 0. 812" × 3. 312" mtg/c; ACEC part/dwg # ACEC 280 0434 00	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-1201		BEARING, sleeve : (c/o O-1201A, O-1201B) (p/o A-1209)	
O-1201A		BEARING : Same as O-1114B (p/o O-1201)	
O-1201B		RETAINER : Same as O-457 (p/o O-1201)	
O-1202		GEAR, SPUR : anodized aluminum; output, tenth mc; involute teeth; 57 teeth; 48 pitch, 1. 1875" PD, 0. 093" gear face wd; 1. 234" OD, 1. 344" lg o/a; straight face; hub 7/16" diam × 0. 157" lg; two 0. 128" wd × 0. 230" diam grooves for retaining rings; - Collins Rad part/dwg #505 0718 002	
O-1203		CLAMP : Same as H-108	
O-1204		GEAR : Same as O-436	
O-1205		GEAR, SPUR : oilite bearing pressed into type #303 SS sleeve which is pressed into anodized aluminum gear; idler gear; involute teeth; 57 teeth; 48 pitch, 1. 1875" PD, 0. 093" tooth face wd; 1. 234" OD × 0. 245" thk o/a; straight face; 7/16" diam × 0. 152" lg hub; 0. 1885" ID for shaft mtg; - Collins Rad part/dwg #505 0719 002	
O-1206		BEARING, sleeve : (c/o O-1206A, O-1206B) (p/o A-1209)	
O-1206A		BEARING : Same as O-206 (p/o O-1206)	
O-1206B		BEARING, SLEEVE : for gear plate; type #303 SS, passivated finish; 0. 625" lg o/a, 0. 625" max OD, 0. 375" ID, 0. 625" OD × 0. 046" lg, 0. 5325" OD × 0. 218" lg, 0. 437" min OD × 0. 361" lg; - Collins Rad part/dwg #505 0723 002; (p/o O-1206)	
O-1207		SPIDER : Same as O-439	
O-1208		COUPLING : Same as O-1125	
O-1209	6105 PE-910 260	BLADE ASSEMBLY, FAN : cools transformer and tubes; consists of 4 blades and hub; aluminum blades and hub, anodized; clockwise rotation facing air discharge; fan diam 4", 11/16" d; mtd by hub 17/32" OD, 1/4" ID, w/2 multiple spline socket, headless set screws #10-32 NF-2 spaced 90 deg apart; - Collins Rad part/dwg #009 1173 00	
O-1210		HUB : coupler; SS type #303, passivated; 1" OD × 1. 455" lg o/a; shaft mtg; 1" diam × 0. 249" thk hub pinned to 1. 393" lg × 0. 249" diam shaft w/ groove pin; - Collins Rad part/dwg #505 0720 002	
O-1211		HUB : coupler; passivated steel, type #303; 8-11/16" lg × 1" OD o/a shaft mtd; 0. 1553" wd raised portion across ctr of hub, 1/4" diam shaft fastened to hub w/ groove pin; - Collins Rad part/dwg #505 0733 002	
O-1212		COVER : cover jack; steel, black wrinkle finish; top 13/16" diam, bottom 5/8" OD, 0. 386" ID, 1-1/16" lg; mtd by 0. 386" diam hole; - Collins Rad part/dwg #139 0003 00	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-1213		CLEANER, AIR : impingement type, aluminum alloy ctr, iridite finish; 4" diam x 2" d, frame 3/16" thk; repleceable; mtd w/ frame; - Collins Rad part/dwg #009 1191 00	
O-1214		COVER : filter; aluminum filter cover, corprene gasket; round body; 4-1/2" lg × 4-1/2" wd × 2. 265" d o/a; four 0. 171" diam mtg holes spaced 3. 281" c to c; twelve horiz slots; ACEC part/dwg #ACEC 504 7683 003, substitute for Collins Rad part/dwg #505 7683 003	
O-1215		CLEANER : Same as O-1213	
O-1216		COVER : Same as O-1214	
O-1217		GEAR, SPUR : anodized aluminum gear, passivated steel hub, type #303; frequency multiplier amplifier dial gear; involute teeth; 144 teeth; 48 pitch, 3. 000" PD; 3-1/8" OD, 0. 2500" ID, 0. 324" thk o/a; straight face, 0. 102" wd; hub 11/16" OD, 0. 2500" ID, 0. 324" thk; mtd on shaft; letters A through R and numerals 22 through 39, 3/32" h, silk screened in black, equally spaced 10 deg apart on gear; - Collins Rad part/dwg #505 0613 002	
O-1218	1700- ~~019 247 950~~ 019 247 700	SPRING, HELICAL TENSION : frequency multiplier loading spring; 0. 063" diam SS wire; 1-1/4" OD × 5/16" thk o/a; both ends bent at 90 deg angles to form terminals 7/64" lg; - Collins Rad part/dwg #505 0588 002	
O-1219		GEAR, SPUR : anodized aluminum gear, passivated steel hub, type #303; injection loading; involute teeth; 144 teeth; 48 pitch, 3. 000" PD; 3-1/8" OD, 0. 2500" ID, 0. 578" wd o/a; straight face, 0. 102" wd; hub 0. 5320" diam for 0. 141", 11/16" diam for 0. 046", 0. 437" diam for 0. 141", 0. 312" diam for 0. 260" w/ 4 slots 0. 032" wd equally spaced; mtd on shaft; hub fastened to gear with groove pin; - Collins Rad part/dwg #505 0614 002	
O-1220		CLAMP : Same as H-108	
O-1221		SHAFT : supports 2 spring loaded gears; passivated steel, type #303; cylindrical; 2. 172" lg × 0. 2493" OD; mtd by 2 oilite bearings in panels; neck 0. 028" wd × 0. 2300" diam 0 255' from one end; - Collins Rad part/dwg #505 0586 002	
O-1222		BEARING, SLEEVE : reduces friction; porous bronze bearing pressed into corrosion resistant steel sleeve; 0. 469" OD, 0. 251" ID, 0. 187" thk o/a; — Collins Rad part/dwg #505 3971 002; (p/o O-1294)	
O-1223		GEAR, SPUR : anodized aluminum; main oscillator and frequency multiplier idler; involute teeth, 72 teeth; 48 pitch, 1. 500" PD, 1-5/8" OD, 0. 2500" ID, 0. 281" thk o/a; straight face, 0. 081" wd; hub 0. 4369" diam for 0. 086", 11/16" diam for 0. 083"; mtd on shaft; - ACEC part/dwg #ACEC 505 0612 002, substitute for Collins Rad part/dwg #505 0612 002	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-1224		GEAR, SPUR: anodized aluminum; main oscillator and frequency multiplier loading idler; involute teeth; 72 teeth, 48 pitch, 1.500" PD; 1-5/8" OD, 0. 4375" ID, 0. 081" tooth face wd; straight face; shaft mtd; ACEC part/dwg #ACEC 505 0616 002, substitute for Collins Rad part/dwg #505 0616 002	
O-1225		GEAR : Same as O-1223	
O-1226		BEARING : Same as O-1222 (p/o O-1294)	
O-1227		GEAR, SPUR : shaft, passivated steel, type #303, anodized aluminum gear; main oscillator drive; involute; 72 teeth, 48 pitch, 1. 500" PD; 2. 172" lg, 0. 2493" ID × 1-5/8" OD o/a; straight face, 0. 102" wd; mtd on shaft; gear pinned to 0. 2493" diam shaft; - Collins Rad part/dwg #505 0611 002	
O-1228		BEARING : Same as O-1222 (p/o O-1294)	
O-1229		GEAR, ASSEMBLY : main drive shaft; c/o one spring pin, one drive shaft, 2 gears and one load spring retainer; steel, type #303 and #304; one gear 0. 8542" OD, 0. 4375" Id, 0. 109" face wd, 48 pitch, w/ 38 straight teeth and straight face, other gear 0. 531" OD, 0. 477" face wd, 48 pitch w/ 24 straight teeth and straight face, load spring retainer 1-31/32" OD × 0. 375" thk w/ 0. 377" diam hole in ctr for shaft and 0. 099" diam hole at edge for pin; 2. 578" lg o/a × 1-31/32" max OD; shaft mtg; - Collins Rad part/dwg #505 0592 002	
O-1230		SPRING : motor type; for gear loading; 0. 250" diam SS; 28" lg × 0. 250" wd × 0. 025" thk; 8-1/2 turns; loop type ends; 0. 070" diam hole on each end; - Collins Rad part/dwg #505 0607 002	
O-1231		GEAR, SPUR : brass gear, phosphor bronze hub; idler; involute teeth; 114 teeth; 48 pitch, 2. 375" PD; 2. 490" OD, 0. 2500" ID, 0. 359" thk o/a; straight face, 0. 102" wd; hub 5/8" OD for 0. 046" 0. 5320" diam for 0. 141", 3/8 diam for 0. 172"; shaft mtd; 6 holes, 1/2" diam, equally spaced on 1-1/2" diam circle in gear; - Collins Rad part/dwg #505 0583 002	
O-1232		BEARING : Same as O-1222 (p/o O-1294)	
O-1233		CLAMP : Same as H-108 (2 each used)	
O-1234		GEAR, SPUR : commercial brass, chromate dipped; cam driving; involute teeth; 54 teeth; 48 pitch, 1. 1250" PD; 1-5/32" OD, 0. 2500" ID, 0. 352" thk o/a; straight face, 0. 102" wd; hub 0. 312" diam × 1/4" thk; shaft mtd; four slots, 0. 032" wd × 0. 242" d equally spaced in hub; - Collins Rad part/dwg #505 0594 002	
O-1235		SHAFT : cam drive shaft; type #303 steel, passivated; cylindrical; 3. 562" lg × 0. 2493" diam; mtd in 2 oilite bearing in panels; neck 0. 028" wd × 0. 2300" diam located 0. 250" and 1. 694" from end; - Collins Rad part/dwg #505 0609 002	
O-1236		GEAR : Same as O-1231	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-1237		BEARING : Same as O-1222 (p/o O-1294)	
O-1238		SHAFT : gear loading; type #303 steel, chromate dipped shaft, brass gear; shaft splined w/ 48 pitch, 0. 4166" PD, 20 involute teeth, straight face, gear 48 pitch, 2. 375" PD, 114 involute teeth, straight face; 2. 172" lg × 2. 375" OD o/a; held securely by retaining rings; - Collins Rad part/dwg #505 3751 002	
O-1239		FOLLOWER, CAM : 1 mc cam follower; shaft and roller type #303 passivated steel, phosphor bronze gear, brass arm; gear 0. 812" OD, 0. 2500" ID, 0. 400" thk, 48 pitch, 0. 750" PD, 36 involute teeth, 0. 093" face wd; 2. 836" lg × 0. 5332" h × 0. 812" wd o/a; mtd on shaft; - Collins Rad part/dwg #505 0610 002	
O-1240		GEAR ASSEMBLY : differential input; c/o two gears, silver soldered together; phosphor bronze, chromate dipped; one gear 2-7/16" OD, 48 pitch, 2. 375" PD, 114 involute teeth, straight face, 0. 102" wd, other gear 25/32" OD, 1/4" ID, 48 pitch, 0. 750" PD, 36 involute teeth, straight face, 0. 093" wd, w/ hub 0. 625" diam for 0. 159", 0. 5320" diam for 0. 148"; 2-7/16" OD, 1/4" ID × 0. 354" thk o/a; shaft mtd; - Collins Rad part/dwg #505 0599 002	
O-1241		GEAR ASSEMBLY : differential; c/o 3 gears, 3 shafts and a groove pin; type #303 steel shafts, one gear brass, chromate dipped, 2 gears phosphor bronze; 2 gears ea 48 pitch, 0. 4583" PD, 22 involute teeth, 0. 280" tooth face wd, other 48 pitch, 2. 375" PD, 114 involute teeth, 0. 109" tooth face wd; one shaft 2. 172" lg × 0. 2493" diam, other shafts 0. 630" lg × 0. 1884" max diam; 1. 623" OD × 2. 172" lg o/a; mtd by shaft; - Collins Rad part/dwg #505 0605 002 (incl O-1310, O-1311, O-1312, O-1313)	
O-1242		BEARING : Same as O-1222 (p/o O-1294)	
O-1243		Not Used	
O-1244		COUPLING : Same as O-1125	
O-1245		SPIDER : Same as O-439	
O-1246		CLAMP : Same as H-108	
O-1247		COUPLING : Same as O-1125	
O-1248		SPIDER : Same as O-439	
O-1249		CLAMP : Same as H-108	
O-1250		COUPLING : Same as O-1125	
O-1251		SPIDER : Same as O-439	
O-1252		BEARING, SLEEVE: brg for gear shaft; type #303 steel brg sleeve, porous bronze oilite brg; 0. 187" lg × 0. 4388" OD, 0. 251" ID; - Collins Rad part/dwg #505 0596 002; (p/o O-1293)	
O-1253		BEARING : Same as O-1252 (p/o O-1293)	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-1254		BEARING : Same as O-1252 (p/o O-1293)	
O-1255		GEAR, SPUR : brass gear, hub and plate, type #303 steel pin, chromate dipped; main loading; straight teeth; 19 teeth, 48 pitch, 0. 3958" PD; 1. 812" OD × 0. 2500" ID × 0. 698" d o/a; straight face; hub extends 0. 337" beyond face of gear, 0. 469" OD; shaft mtd; spring pin and gear silver soldered to retainer; - Collins Rad part/dwg #505 0593 002	
O-1256		BEARING : Same as O-1252 (po/o O-1293)	
O-1257		GEAR : Same as O-1231	
O-1258		GEAR : Same as O-1231	
O-1259		GEAR, SPUR : commercial brass, chromate dipped; differential drive; involute teeth; 108 teeth; 48 pitch, 2. 2500" PD, 0. 102" tooth face wd; 2-5/16" OD × 0. 437" thk o/a; straight face; hub 0. 3445" OD × 0. 437" thk; mtd on shaft; gear and cam pressed on hub and riveted together, hub phosphor bronze, cam, brass, chromate dipped; - Collins Rad part/dwg #505 0591 002	
O-1260		BEARING : Same as O-1252 (p/o O-1293)	
O-1261		GEAR : Same as O-1231	
O-1262		BEARING : Same as O-1252 (p/o O-1293)	
O-1263		GEAR ASSEMBLY : main loading gear; c/o two gears silver soldered together; one gear type #303 steel, other gear brass, both chromate dipped; one gear 48 pitch, 0. 4166" PD, 20 involute, int teeth, 0. 375" tooth face wd, straight face, other gear 48 pitch, 2. 375" PD, 114 involute teeth, 0. 102" tooth face wd, straight face; 0. 375" thk × 2-1/2" OD o/a; mtd on shaft; - Collins Rad part/dwg #505 0598 002	
O-1264		SLEEVE, COUPLING : couples two shafts; passivated steel type #303; cylindrical, 21/32" lg × 3/8" OD × 0. 2500" ID; shaft mtd; - Collins Rad part/dwg #505 0727 002	
O-1265		SLEEVE : Same as O-1264	
O-1266		BEARING, sleeve : (c/o O-1266A, O-1266B) (p/o A-1209)	
O-1266A		BEARING : Same as O-1114B (p/o O-1266)	
O-1266B		RETAINER : Same as O-457 (p/o O-1266)	
O-1267		GEAR, SPUR : anodized aluminum; output, tenth mc; involute teeth; 57 teeth; 48 pitch, 1. 1875" PD, 0. 093" gear face wd; 1. 234" OD, 1.468" lg o/a; straight face; hub 7/16" diam × 0. 157" lg; two 0. 028" wd × 0. 230" diam grooves for retaining rings; - Collins Rad part/dwg #505 0724 002	
O-1268		GEAR : Same as O-1205	
O-1269		CLAMP : Same as H-108	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-1270		SPIDER : Same as O-439	
O-1271		COUPLING : Same as O-1125	
O-1272		BEARING, sleeve: (c/o O-1272A, O-1272B) (p/o A-1209)	
O-1272A		BEARING : Same as O-206 (p/o O-1272)	
O-1272B		BEARING : Same as O-1206B (p/o O-1272)	
O-1273		CLAMP : Same as H-108	
O-1274		RETAINER : Same as O-457 (p/o O-1278)	
O-1275		CLAMP : Same as H-108	
O-1276		BEARING, sleeve : (c/o O-1276A, O-1276B) (p/o A-1210)	
O-1276A		BEARING : Same as O-1114B (p/o O-1276)	
O-1276B		RETAINER : Same as O-457 (p/o O-1276)	
O-1277		CLAMP : Same as H-108	
O-1278		BEARING, sleeve : (c/o O-1278A, O-1278B) (p/o A-1210)	
O-1278A		BEARING : Same as O-1114B (p/o O-1278)	
O-1278B		GEAR : Same as O-436	
O-1279		Not Used	
O-1280		Bearing, sleeve : (c/o O-1280A, O-1280B) (p/o A-1210)	
O-1280A		BEARING : Same as O-1114B (p/o O-1280)	
O-1280B		RETAINER : Same as O-457 (p/o O-1280)	
O-1281		HUB : coupling; passivated steel, type #303; 7-13/16" lg × OD o/a; shaft mtd; 0. 1553" wd raised portion across ctr of hub, 1/4" diam shaft fastened to hub w/ groove pin; - Collins Rad part/dwg #505 0714 001	
O-1282		SPIDER : Same as O-439	
O-1283		SPIDER : Same as O-439	
O-1284		SPIDER : Same as O-439	
O-1285		BEARING : Same as O-1252 (p/o O-1293)	
O-1286		SHAFT : idler; type #303 steel, passivated; 1. 828" lg o/a, 0. 2493" diam for 0. 750", 3/8" diam for 0. 527", 0. 2493" diam for 0. 551"; five grooves for retaining; - Collins Rad part/dwg #505 3753 002	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-1287		GEAR, SPUR : chromate dipped phosphor bronze; idler; involute teeth; 54 teeth; 48 pitch, 1. 125'' PD; 1. 875'' OD × 0. 312'' gear face width; straight face; 0. 2500'' ID for shaft mtg; - Collins Rad part/dwg #505 3754 002	
O-1288		GEAR : Same as O-1287	
O-1289		BEARING : Same as O-1222 (p/o O-1294)	
O-1290		SHAFT : follower spring; aluminum, chromate dipped; 1-21/32'' lg × 0. 250'' diam; 0. 150'' diam × 1/16'' wd groove for retaining; - Collins Rad part/dwg #505 3750 001	
O-1291	1700 019 253 220	SPRING, HELICAL COMPRESSION : follower loading; 0. 028'' diam wire, type #302 passivated steel; 1. 806'' lg × 1/4'' diam o/a; 37-1/4 turns; right hand close wnd turns 2 hook term, one on ea end, perpendicular to each other; long round end hooks oriented at 90 deg; - Collins Rad part/dwg #505 3756 002	
O-1292		BEARING, sleeve : (c/o O-1292A, O-1292B) (p/o A-1210)	
O-1292A		BEARING : Same as O-1114B (p/o O-1292)	
O-1292B		RETAINER : Same as O-457 (p/o O-1292)	
O-1293		PLATE, GEAR : for main gear auxiliary; chromate dipped aluminum; rectangular with 2 cutouts; 8. 437'' lg × 6-3/8'' wd × 1-7/32'' d o/a; four 0. 187'' diam holes, two 0. 2500'' diam holes for mtg; black silk screened letters and numerals 3/32'' h on front and back; incl 2 idler gear posts and 7 brg; - Collins Rad part/dwg #505 0620 003; (incl O-1252, O-1253, O-1254, O-1256, O-1260, O-1262, O-1285)	
O-1294		PLATE, GEAR : for main gear assem; chromate dipped aluminum; rectangular w/ cutouts; 16'' lg × 10. 109'' wd × 29/32'' d o/a; fifteen mtg holes tapped #8-32 spaced around edge of plate; black silk screened letters and numerals on front and back; incl 7 brg and 4 idler gear posts; - ACEC part/dwg #ACEC 505 0644 004, substitute for Collins Rad part/dwg #505 0644 005; (incl O-1222, O-1226, O-1228, O-1232, O-1237, O-1242, O-1289)	
O-1295		Not Used	
O-1296		Not Used	
O-1297	1700- 019 247 950	WASHER, SPRING TENSION : grounds frame of rec to cover; silver pl beryllimu copper, 0. 0063'' thk; 2-3/8'' lg × 0. 578'' wd × 1/4'' h o/a; three 0. 109'' diam mtg holes spaced 1. 062'' c to c; 11 fingers 3/16'' wd × 9/32'' d with 1/32'' wd slot between each one; - Collins Rad part/dwg #505 0730 002	
O-1298		WASHER : Same as O-1297	
O-1299		WASHER : Same as O-1297	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
O-1299.1		WASHER : Same as O-1297	
O-1299.2		WASHER : Same as O-1297	
O-1299.3		WASHER : Same as O-1297	
O-1299.4		GEAR, SPUR : passivated type #303 SS hub, anodized aluminum gear; output, unit mc; involute teeth; 114 teeth, 43 pitch, 2. 375" PD 0. 102" gear face wd; 2-7/16" OD, 1. 359" lg o/a; straight face; hub 5/8" OD for 0. 032" lg on front of gear, 3/8" OD for 0. 172" lg on back of gear; one 0. 128" wd × 0. 230" diam groove for retaining ring; silk screened lines and numerals 3/32" h on face of gear; - Collins Rad part/dwg #505 0721 002	
O-1299.5		COUPLING : Same as O-1125	
O-1299.6		SHAFT : differential pinion; type #303 steel, passivated; 0. 630" lg × 0. 1884" OD; - Collins Rad part/dwg #505 0568 002; (p/o O-1241)	
O-1299.7		SHAFT : Same as O-1299.6 (p/o O-1241)	
O-1299.8		GEAR, SPUR : phosphor bronze; p/o differential gear assem; involute teeth; 22 teeth; 48 pitch, 0. 4583" PD, 0. 280" gear face wd; 0. 5156" OD, 0. 1875" ID, 0. 414" thk o/a; straight face; hub 0. 312" OD × 0. 126" thk; shaft mtd; - Collins Rad part/dwg #505 0565 002; (p/o O-1241)	
O-1299.9		GEAR : Same as O-1299.8 (p/o O-1241)	
P-1201		CONNECTOR : Same as P-402 (p/o W-1203)	
P-1202		Not Used	
P-1203		Not Used	
P-1204		CONNECTOR : Same as P-402	
P-1205		CONNECTOR : Same as P-402 (p/o W-1203)	
R-1201		Not Used	
R-1202		Not Used	
R-1203		Not Used	
R-1204	5905-107 7456	RESISTOR, VARIABLE, COMPOSITION : 10, 000 ohm p/m 20 %; 1/4 w at 40°C; three solder lug term; plastic case; w/ metal cover 1-5/32" diam × 19/32" d, enclosed; round shaft, metal, 0. 250" diam × 7/8" lg FMS; 10 clockwise log taper; ins cont arm, w/o off position; normal torque; bushing 3/8" 32 NEF-2 × 3/8" lg, non-turn device located on 17/32" rad at 9 o'clock; dust-proof, fp, varnish or lacquer treated; - Collins Rad part/dwg #380 0231 00	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
R-1205	5905 PE- 173-9169	RESISTOR, VARIABLE, COMPOSITION : 100, 000 ohm resistance per sect, dual sect p/m 20 %; 1/4 w per sect; 3 solder lug term; metal case 1-5/32" diam × 1-1/4" d max, enclosed case; round shaft, metal, 7/8" lg × 0. 250" diam; 10 clockwise log; ins cont arm, w/o off position; normal torque; bushing 3/8" -32 NEF-2 × 3/8" lg, no-turn device located on 17/32" rad at 9 o'clock; - Collins Rad part/dwg #380 0365 00	
R-1206	5905 PE- 971 718	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 4,700 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1114 00; JAN spec JAN-R-11, type RC20BF472K; for general purpose use.	
R-1207	3350- 772 500-7753	RESISTOR, VARIABLE, COMPOSITION : 50, 000 p/m 20 % tol; 1/2 w at 40°C; three solder lug term; plastic case w/ metal cover 1-5/32" diam × 19/32" d, enclosed; round shaft, metal, 0. 250" diam × 7/8" lg FMS; linear, ins cont arm, w/o off position; normal torque; bushing 3/8" -32 NEF-2 × 3/8" lg; non-turn device located on 17/32" radius at 9 o'clock; fp; dustproof, varnish treated; - Collins Rad part/dwg # 380 0232 00	
R-1208		RESISTOR : Same as R-510	
R-1209	5905 PE- 971 759	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2; 22, 000 ohms p/m 10 % tol; 2 w power dissipation; temp characteristic letter E; 0. 750" lg × 0. 370" diam max; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 9153 00; JAN spec JAN-R-11, type RC42BE223K; for general purpose use	
R-1210	5905 PE- 971 767	RESISTOR, FIXED, WIRE-WOUND : power type : JAN type #RW21G201; 200 ohm, p/m 5 %; 22 w; 2" lg × 1-3/16" wd × 21/32" thk body less term and mtg brackets; cement coated, resistant to moisture; two radial tab terminals 3/8" lg × 11/64" wd × 0. 015" thk; integral mtg brackets with two 0. 196" diam holes on 2-3/4" mtg/c; characteristic letter G; JAN-R-26A; - Collins Rad part/dwg #746 4066 00	
R-1211	5905 PE- 971 738	RESISTOR, FIXED, COMPOSITION : body style #3, Ref Dwg Group 2 : 680, 000 ohms p/m 10 % tol; 1/2 w power dissipation; temp characteristic letter F; 0. 406" lg, 0. 175" diam; ins; RTH and RSW; 2 term, axial wire lead type; HF appl; - Collins Rad part/dwg #745 1205 00; JAN spec JAN-R-11, type RC20BF684K; for general purpose use	
R-1212		Not Used	
R-1213		RESISTOR : Same as R-642	
R-1214		RESISTOR : Same as R-102	
S-1201	3360- 395 853 000	SWITCH, TOGGLE DPST : JAN type #ST22K; resistive load 5 amp at 125 v, 2 amp at 250 v, inductive load 3 amp at 125 v, 1,5 amp at 250 v; phenolic body; 1-9/32" lg × 23/32" wd × 2. 125" h o/a; 11/16" lg bat type handle; locking action; six lug term; 15/32" lg sleeve × 15/32" -32NS-2 mtg bushing, incl 2 hex nuts; JAN spec JAN-S-23; - Collins Rad part/dwg #266 3029 00	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
S-1202	3360 PE- 978 312	SWITCH, TOGGLE : metal body; DPDT, JAN type #ST52P, 30 amp continuous current carrying capacity, 15/32" -32 NS-2 × 15/32" lg mtg sleeve, 6 term, lug type, 2-7/32" lg × 1-21/64" wd ×49/64" max thk o/a; position 1 : ON, position 2 : OFF, position 3 : O N;- Collins Rad part/dwg #266 3061 00	
S-1203		SWITCH : Same as S-901	
S-1204		SWITCH : Same as S-901	
S-1205	3360 PE- 978 310	SWITCH, TOGGLE : phenolic body; SPST; JAN type #ST12D; resistive load 5 amp at 125 v, 2 amp at 250 v, inductive load 3 amp 125 v, 1,5 amp at 250 v, 6 amp continuous current carrying capacity; 15/32" lg of sleeve, 3 term, solder lug type; 2-1/8" lg × 1-9/32" wd × 23/32" max thk o/a; - Collins Rad part/dwg #266 3032 00	
S-1206	3360- 072 450 030	SWITCH, INTERLOCK : SPDT, 10 amp, 125 or 250 v AC; 0,5 amp, 125 v DC, 0,25 amp, 250 v DC; phenolic and metal body; 1-7/8" lg × 33/64" wd × 1-9/16" h o/a; momentary action w/ provision for manual oper and automatic return to normal; screw type term; 6-32 NC-2 tapped hole in end of shaft; mts by four #6-32 NC-2 tapped holes spaced on right angle bkt; sensitive switch w/ mtg bkt, rod actuator and roller oper leaf; - Collins Rad part/dwg #266 0013 00	
S-1207	3360 PE- 978 307	SWITCH, ROTARY : 3 pole: 3 position: silver pl spring brass; phenolic ins: 1-1/4" wd × 1-9/16" h × 13/16" d; shorting type cont; locking action; lug type term; single hole mtg type bushing, 3/8" -32 NEF-2 × 1/4" lg; ACEC part/dwg #ACEC 259 0447 00, substitute for Collins Rad part/dwg #259 0447 00	
TB-1201		BOARD, TERMINAL : terminates components and wiring; 4 solder type term; terminals 0. 296", 0. 858", 1. 008" and 2. 046" from one end; phenolic board; 2-31/64" lg x 1/4" wd x 5/8" d o/a; two 0. 140" diam mtg holes spaced 1-11/16" c to c; - Collins Rad part/dwg #505 4382 002	
TB-1202		BOARD : Same as TB-1201	
W-1201		CABLE ASSEMBLY, RADIO FREQUENCY : Army-Navy type #RG-58/U cable; 24" lg excluding term; 24-11/16" lg o/a; one JAN type #UG-496/U connector receptacle w/ female cont and hood on one end, one JAN type #UG-88/U BNC connector w/ male cont on other end; - Collins Rad part/dwg ACEC part/dwg #ACEC 505 8535 002, substitute for Collins Rad part/dwg #505 #505 8535 002; (incl A-1236, J-1212, P-1204, W-1202)	
W-1202		CABLE, RF : RG-58/U; coaxial; 53. 5 ohm impedance, 29 mmf/ft; 1. 900 v RMS; #20 AWG solid plain copper wire; 0. 195" OD, single braid of #36 AWG tinned copper wire, jacket of synthetic resin outer conductor; solid type A dielectric; 0. 116" diam; 0. 195" OD, jacket of synthetic resin; JAN spec JAN-C-17; - Collins Rad part/dwg #425.0007 00; (p/o W-1201) (1. 9 ft each used)	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
W-1203	5995 PE-910 427	CABLE ASSEMBLY, RADIO FREQUENCY : Army-Navy type RG-58/U cable; 29. 5" lg; 2 connectors; JAN type UG-88/U, one each end; male contact; ACEC part/dwg #ACEC 505 8549 002; substitute for Collins Rad part/dwg #505 8549 002	
W-1204		CABLE : Same as W-1202 (p/o W-1203) (2 ft each used)	
XF-1201	8870-585 000-475	HOLDER, FUSE : extractor post type; for 3AG fuse 1-1/4" lg × 1/4" diam; bakelite w/copper 125 v 15 amp; 2-9/64" lg × 11/16" diam o/a; 1/2" -24 NS-2 threaded body for panel hole mtg; 2 solder lug term; test probe hole in knob, fungi resistant; - Collins Rad part/dwg #265 1019 00	
XF-1202		HOLDER : Same as XF-1201	
XI-1201		Not Used	
XI-1202	6210 PE-081 156	LIGHT, INDICATOR : w/o lens; for miniature bayonet base T-3-1/4 bulb; enclosed shell; dull black metal finish; 1-19/32" lg 11/16" diam; horiz mtg socket lamp, replaceable from of panel; two solder lug term located on base of socket; - Collins Rad part/dwg #262 0109 00	
XI-1203		LIGHT : Same as XI-1202	
Z-1201	3330-058 750 086	FILTER, RADIO INTERFERENCE : capacitor and coil type; 2" lg × 2" wd × 1" d less term and mtg; 1. 5 amp, 250 v AC, 60 cycles ea line; rectangular, non-magnetic metallic case; two mtg feet w/ two 0. 187" diam holes spaced 2-3/8" c to c; four solder lug term; minus 55°C to plus 85°C temp range; - Collins Rad part/dwg #241 0025 00	
Z-1202		FILTER, LOW PASS : 225 mc to 400 mc freq at 0. 3 db attenuation; 3. 375" wd × 4-13/16" lg × 1-53/64" d o/a; 52 ohms impedance; 2 female connector type terminals to mate w/ UG-88/U male connector; - Collins Rad part/dwg #241 0057 00	
1301-1399 series		DIRECTION FINDER SIGNAL FILTER . four capacitors; two for filtering 230 and 200 V DC; one for AVC time constant, one for blower circuit; 4-7/8" lg × 4-19/32" wd × 5-13/16" h o/a; less cable and cable connector; schematic plate riveted to chassis; mts in main receiver frame and secured by four screws; short cable w/ connector; p/o Army-Navy Receiver R-278B/GR; - ACEC part/dwg #ACEC C. 3.521.328	
A-1301		CHASSIS : for DF signal filter; 52S-H34 aluminum, chromate dipped; 4-7/8" lg × 4-19/32" wd × 2-3/16" h o/a; four 1" diam holes on 1-3/8" × 1-15/16" mtg/c, one 13/16" diam hole and one cutout 1-1/4" lg × 9/16" wd on top of chassis; two type #303 steel mtg posts; black silk screened letters and numerals 3/32" h; schematic plate riveted to one side; ACEC part/dwg #ACEC C. 4 522 066	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER, R-278B/GR	
A-1302		COVER, ELECTRICAL CONNECTOR : aluminum, anodized and dichromate sealed can, cad pl steel clamp and screws; rectangular; 1. 187" lg × 1-3/4" h × 31/32" wd o/a; two mtg tabs on inside of cover; on ea side, extruded and tapped #4-40 NC-2; 0. 375" diam cable opening; black silk screening 3/32" h, « P-1301 DF SIGNAL FILTER »; two # 6-32 NC-2 screws in cable clamp; ACEC part/dwg #ACEC C. 5 528 309	
C-1301	3330- 056 750 301	CAPACITOR, FIXED, PAPER DIELECTRIC : 1 section, 600 vdcw; 8 mf, + 40 %, — 15 % tol; temp coef letter F; no int gnd connection; HS metallic case; 3-3/4" lg × 1-1/4" wd × 3-7/8" h except term; two stud term, 1-3/8" h on ins pillars, 2" c to c, on bottom side; accom mtg bkt; - Collins Rad part/dwg #962 4236 00; JAN spec JAN-C-25, type CP70E1FF805X	
C-1302		CAPACITOR : Same as C-1301	
C-1303	3330- 057 250 255	CAPACITOR, FIXED, PAPER DIELECTRIC : 1 section; 150 vdcw; 20 mf ± 20 % tol; high temp solid impr; one term gnd; HS metallic, non-magnetic case; 2-7/8" lg w/o term, 4" lg max o/a; 1-1/2" diam; two solder lug term located on mtg base; mtd by #3/4" -16 UNF-2A thd bushing, 1/2" lg; mtg nuts, washers and solder lug term incl; - Collins Rad part/dwg # 930 0244 00	
C-1304	3330- 316 958 920	CAPACITOR, FIXED, PAPER DIELECTRIC : 1 section, 400 vdcw; 1,0 mf, + 20 %, — 10 % tol; temp coef letter E; no int gnd connection; HS metallic case; 1-5/16" lg × 49/64" wd × 2-1/2" h except term; two solder lug term, 3/4" max lg, 5/8" c to c, on bottom side; accom mtg bkt; - Collins Rad part/dwg #961 7193 00; JAN spec JAN-C-25, type CP61B1EE105V	
H-1301		SCREW : Same as H-601 (2 each used)	
H-1302		WASHER : Same as H-105 (2 each used)	
H-1303		SCREW : Same as H-122 (2 each used)	
H-1304		BRACKET : Same as E-1001	
H-1305		WASHER : Same as H-119	
H-1306		NUT : Same as H-115	
H-1307		BRACKET, MOUNTING : JAN type CP07SB4; to be fitted to CP70 capacitors; magnetic or non-magnetic mtl, hot tin dipped or cad pl; 29/32" wd × 3. 625" h; mtd by one stud, 7/8" lg, #10-32 NF-2 thd; - Collins Rad part/dwg #139 0166 00; (4 each used)	
H-1308		NUT, PLAIN, HEXAGON : brass, nickel pl; #10-32 NF-2, 0. 130" thk, 3/4" wd across flats; double chamfered; - Collins Rad part/dwg #313 0056 00; (4 each used)	
H-1309		WASHER, LOCK : cad pl phosphor bronze, round, 13/32" OD, 0. 022" thk, ID to pass #10 screw; shakeproof type; tw ext teeth; - Collins Rad part/dwg #373 7040 00; (4 each used)	

Symbol No. Reference	Stock No.	Description	Source Code
		RADIO RECEIVER R-278B/GR	
H-1310		CLAMP : cable; CRS, cad pl; 0. 778" lg × 1/2" wd × 0. 309" h, 0. 028" thk; single 0. 156" diam mtg hole in ctr; accom 3/8" diam cable; - Collins Rad part/dwg #505 2460 002	
H-1311		SCREW : Same as H-116	
H-1312		WASHER : Same as H-111	
H-1313		NUT : Same as H-114	
N-1301		PLATE, INSTRUCTION : direction finder filter schematic, R-278B/GR; aluminum; rectangular; 2-3/16" lg × 13/16" wd × 0. 031" thk o/a; four 0. 075" diam holes spaced on 1. 937" × 0. 562" mtg/c; black background w/low gloss anodized aluminum lines and characters; ACEC part/dwg #ACEC C. 5 528 411	
P-1301		CONNECTOR : Same as P-101	

Section 3

Cross-index, part number to reference symbol number

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
AP 347096		H-1126	20	4
C 3.521.328		1301 - 1399 series		
C 4.522.066		A-1301	34	1
C 5.527.937		H-128	3	1
C 5.528.309		A-1302	34	1
C 5.528.411		N-1301	34	1
C 5.528.604		H-619	10	1
009 1173 00	*	O-1209	24	1
009 1191 00		O-1213	24	2
		O-1215	24	
012 1297 00	*	E-1235	30	4
024 0019 00	*	WRENCH 1		1
024 3000 00	*	SCREWDRIVER 2		1
024 9710 00	*	WRENCH 3		1
024 9730 00	*	WRENCH 4		1
139 0003 00		O-1212	22	1
139 0004 00		H-112	3	10
		H-318	5	
		H-1110	21	
		H-1265	26-29-31-32	
139 0016 00	*	H-903	14	1
139 0019 00	*	H-904	14	2
139 0029 00		H-803	13	5
		H-1269	26-33	
139 0077 00		H-234	4	3
		H-1266	25-26	
139 0118 00		E-610	9	1
139 0119 00		E-1001	17	2
		H-1304	34	
139 0166 00		H-1307	34	4
139 0390 00		E-805, E-818	12	2
139 4400 00		H-614	10	6
		H-921	15	
		H-1111	21	
		H-1267	26-33	
139 4500 00		H-813	13	6
		H-1268	32-33	
141 0103 00	*	E-201	4	7
		E-404	6	
		E-502	8	
		E-606, E-607, E-608	9	
		E-801	12	
141 0111 00	*	E-301, E-302	5	7

Part Number	Parts Spare	Reference Symbol Nº	Figure Nº	Total Qty per equipment
		E-401, E-402, E-403	6	
		E-604, E-605	9	
141 0112 00	*	E-101, E-102	3	10
		E-303, E-304, E-305	5	
		E-501	8	
		E-601, E-602, E-603	9	
		E-609	9	
141 0163 00	*	E-802, E-803, E-804,	12	4
		E-901	14	
190 1104 00	*	E-203	4	1
190 1105 00	*	E-204	4	2
		E-212	4	
200 0269 00		H-216	4	22
		H-312	5	
201 0136 00		H-439	7	20
		H-537	8	
		H-621	9	
		H-817	12	
		H-923	15	
		H-1017	17	
		H-1293	23	
220 1005 00	*	XK-901	15	1
220 1068 00	*	XV-101, XV-102	3	8
		XV-301, XV-302, XV-303	5	
		XV-304, XV-305	5	
		XV-401	7	
220 1069 00	*	XV-402, XV-403	7	13
		XV-501	8	
		XV-601, XV-602, XV-603	11	
		XV-604, XV-605, XV-609	11	
		XV-802, XV-803, XV-804	13	
		XV-903	15	
220 1086 00	*	XV-201	4	1
220 1087 00	*	XV-404	7	6
		XV-502	8	
		XV-606, XV-607, XV-608	11	
		XV-801	13	
220 1133 00	*	XV-901	15	2
		XV-902	15	
230 0144 00	*	B-1101	20	1 (alt 1)
230 0169 00		B-1201	24	1 (alt 2)
230 0192 00	*	B-1201	24	1 (alt 1)
230 0260 00		B-1101	20	1 (alt 2)
234 0216 00		E-1113 (p/o B-1101)	20	2
234 0217 00		E-1114 (p/o B-1101)	20	2
240 0020 00	*	L-901 thru L-906	15	6
240 0064 00	*	L-201	4	1
240 0073 00	*	L-505, L-506	8	2

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
240 0074 00	*	L-102, L-104	3	6
		L-301, L-302, L-303	5	
		L-401	7	
240 0080 00	*	L-406, L-409	7	3
		L-507	8	
241 0025 00	*	Z-1201	33	1
241 0057 00		Z-1202	26	1
254 0065 00	*	V-901, V-902	14	2
254 0126 00	*	V-609	9	1
254 0639 00	*	V-101, V-102	3	5
		V-303, V-304, V-305	5	
254 0790 00	*	V-608	9	1
254 0792 00	*	V-502	8	4
		V-606, V-607	9	
		V-801	12	
254 0809 00	*	V-201	4	2
		V-404	6	
254 0811 00	*	V-903	14	1
254 0844 00	*	V-604, V-605	9	2
254 0845 00	*	V-802, V-803	12	2
254 0846 00	*	V-301, V-302	5	5
		V-401. V-402, V-403	6	
254 0872 00	*	V-601, V-602, V-603	9	3
254 0873 00	*	V-804	12	1
254 0879 00	*	V-501	8	1
259 0387 00	*	S-1107 thru S-1117	19	11
259 0388 00	*	S-1118 thru S-1128	19	11
259 0389 00	*	S-1129 thru S-1139	19	11
259 0429 00	*	S-1101	20	1
ACEC 259 0447 00	*	S-1207	29	1
262 0109 00	*	XI-1202	22	2
		XI-1203	22-24	
262 0115 00	*	I-1203	22-24	1
262 0116 00	*	I-1202	22	1
262 3240 00	*	I-1204	22	2
		I-1206	22-24	
264 4060 00	*	F-1201 (230 V)	22	1
264 4080 00	*	F-1201 (115 V)	22	2
		F-1202 (220 V)	22	
264 4090 00	*	F-1202 (115 V)	22	1
265 1019 00	*	XF-1201	22	2
		XF-1202	22	
266 0013 00	*	S-1206	29	1
266 3029 00	*	S-1201	22	1
266 3030 00	*	S-901, S-902	15	4
		S-1203	24	
		S-1204	24	
266 3032 00	*	S-1205	22-24	1

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
266 3061 00	*	S-1202	24	1
267 0050 00		S-205	4	1
269 1299 00	*	S-1103B	21	1
269 1301 00	*	S-1102B	21	1
269 1302 00	*	S-1103A	21	1
269 1303 00	*	S-1102C, S-1102D, S-1102E	21	3
269 1304 00	*	S-1102A	21	1
269 1305 00	*	S-1104	21	1
269 1306 00	*	S-1105, S-1106	21	2
ACEC 269 1334 00	*	S-501	8	1
269 1338 00	*	S-201, S-204	4	3
ACEC 269 1342 00	*	S-401	6	1
ACEC 280 0434 00		N-1206	22	1
281 0199 00		H-1270	29	1
291 8103 00	*	Y-501	8	1
291 8104 00	*	Y-502	8	1
291 8105 00	*	Y-503	8	1
291 8106 00	*	Y-504	8	1
291 8107 00	*	Y-505	8	1
291 8108 00	*	Y-506	8	1
291 8109 00	*	Y-507	8	1
291 8110 00	*	Y-508	8	1
291 8111 00	*	Y-509	8	1
291 8112 00	*	Y-510	8	1
291 8699 00	*	Y-410	6	1
291 8700 00	*	Y-409	6	1
291 8701 00	*	Y-408	6	1
291 8702 00	*	Y-407	6	1
291 8703 00	*	Y-406	6	1
291 8704 00	*	Y-405	6	1
291 8705 00	*	Y-404	6	1
291 8706 00	*	Y-403	6	1
291 8707 00	*	Y-402	6	1
291 8708 00	*	Y-401	6	1
291 9133 00	*	Y-209, Y-218	4	2
291 9134 00	*	Y-217	4	1
291 9135 00	*	Y-206, Y-216	4	2
291 9136 00	*	Y-215	4	1
291 9137 00	*	Y-203, Y-214	4	2
291 9138 00	*	Y-213	4	1
291 9139 00	*	Y-212	4	1
291 9140 00	*	Y-211	4	1
291 9141 00	*	Y-210	4	1
291 9142 00	*	Y-208	4	1
291 9143 00	*	Y-207	4	1
291 9144 00	*	Y-205	4	1
291 9145 00	*	Y-204	4	1
291 9146 00	*	Y-202	4	1

Part Number	Spare Parts	Reference Symbol Nº	Figure Nº	Total Qty per equipment
291 9147 00	*	Y-201	4	1
292 0059 00	*	J-202	4	1
292 0073 00	*	XY-401 thru XY-410	6	2
		XY-501 thru XY-510	8	
292 0074 00	*	XY-201 thru XY-218	4	1
292 0075 00		S-203	4	1
292 0077 00		S-202	4	
302 0026 00		H-905	15	6
302 0262 00		H-421	6	52
		H-526	8	
		H-1134	21	
302 2200 00		H-1145	20	40
304 1300 00		H-911	14	1
304 3110 00		H-113	3	65
		H-225	4	
		H-315	5	
		H-420	6-7	
		H-512	8	
		H-604	9-11	
		H-810	13	
		H-912	15	
		H-1218	23-24-31	
304 3120 00		H-809	12	14
		H-913	15	
		H-1010	16-17	
		H-1228	24-26-32-33	
304 6300 00		H-1278	29	2
304 8000 00		H-925	14	3
306 0090 00	*	E-411, E-412, E-413	7	9
		E-414, E-415	7	
		E-813, E-814, E-816	13	
		E-817	13	
306 0091 00	*	E-103, E-115	3	50
		E-202	4	
		E-306, E-307, E-308	5	
		E-309	5	
		E-419	6	
		E-503, E-504, E-505	8	
		E-516	8	
		E-611, E-614, E-617	10	
		E-619, E-620, E-621	10	
		E-622, E-624, E-625	10	
		E-628, E-629, E-630	10	
		E-631, E-632, E-634	10	
		E-635, E-636, E-637	10	
		E-638, E-639, E-640	10	
		E-806, E-807, E-808	13	
		E-809, E-810, E-811	13	

Part Number	Parts Spare	Reference Symbol N°	Figure N°	Total Qty per equipment
		E-812	13	
		E-1103, E-1104, E-1105	21	
		E-1106, E-1107, E-1108	21	
		E-1109, E-1110, E-1111	20	
		E-1202	24	
306 0213 00		E-216	4	1
306 0233 00	*	E-612, E-613, E-615	10	10
		E-616, E-618, E-623	10	
		E-626, E-627, E-633	10	
		E-815	13	
306 0234 00	*	E-213, E-214	4	4
		E-1101, E-1102	21	
309 0079 00		O-414, O-415, O-425	6	9
		O-426, O-427, O-428	6	
		O-429	6	
		O-512, O-513	8	
309 0086 00		O-1114B	20-21	22
		O-1201A	28	
		O-1266A	28	
		O-1276A	28	
		O-1278A	28	
		O-1280A	28	
		O-1292A	28	
309 0117 00		O-1113B	20	4
309 5010 00		O-206, O-207	4	4
		O-1206A	28	
		O-1272A	28	
309 5110 00		O-423	6	1
310 0034 00		H-538	8	2
310 0044 00		H-1158	21	1
310 0045 00		H-243	4	
		H-1286	31-32-33	20
310 0053 00		H-539	8	2
310 0054 00		H-205	4	4
		H-321	5	
		H-919	14	
310 0056 00		H-917	14	5
310 0058 00		H-1123	20	4
310 0072 00		H-105	3	33
		H-239	4	
		H-322	5	
		H-602	9	
		H-815	12	
		H-1002	16	
		H-1146	20	
		H-1297	26	
		H-1302	34	
310 0076 00		H-224	4	39

Part Number	Parts Spare	Reference Symbol Nº	Figure Nº	Total Qty per equipment
		H-416	6	
		H-527	8	
		H-1132	21	
310 3260 00		H-511	8	4
		H-1215	23-24-29	
310 3310 00		H-927	15	13
		H-1271	25	
310 3340 00		H-106	3	64
		H-220	4	
		H-305	5	
		H-408	6	
		H-536	8	
		H-1108	20-22	
		H-1230	23-25-26 27-28-32	
310 3360 00		H-1155	20	21
		H-1288	23	
311 1122 00		H-1127	20-21	5
311 6003 00		H-1251	32	4
311 7003 00		H-405	6	13
		H-534	8	
312 0067 00		H-436	6	1
312 0078 00		H-1122	20	2
312 0097 00		H-1121	20	4
313 0013 00		H-241	4	14
		H-1167	22	
		H-1231	22	
313 0049 00		H-605	9-10	37
		H-814	12-13	
		H-909	14-15	
		H-1009	16-17	
313 0050 00		H-127	3	6
313 0051 00		H-114	3	32
		H-210	4	
		H-314	5	
		H-1313	34	
313 0053 00		H-235	4	1
313 0056 00		H-1308	34	4
313 0099 00		H-1012	17	4
313 0112 00		H-430	6-7	118
		H-513	8	
		H-606	9-11	
		H-806	13	
		H-915	15	
		H-1018	16	
		H-1172	20	
		H-1232	23-24-30 31-32-33	

Part Number	Parts Spare	Reference Symbol N°	Figure N°	Total Qty per equipment
313 0116 00		H-504	8	1
313 0117 00		H-115	3	10
		H-1252	24-33	
		H-1306	34	
313 0121 00		H-819	12	10
		H-916	14	
313 0125 00		H-204	4	11
		H-429	6	
		H-518	8	
		H-540	8	
		H-1292	24	
313 0134 00		H-532	8	24
		H-1131	21	
323 0019 00		H-437	7	2
324 0300 00		H-107	3	30
		H-217	4	
		H-306	5	
		H-409	6	
		H-1107	20	
		H-1242	25-26-27 28-32	
328 0019 00		H-1169	21	8
328 0021 00		H-1162	20	8
		H-1219	22-23	
334 0247 00		H-1220	24	3
334 0256 00		H-227	4	18
334 0428 00		H-1128	20	5
334 0458 00		O-1131	20	4
		H-1206	22-24	
334 0459 00		H-1205	22-24	5
334 0485 00		H-109	3	27
		H-218	4	
		H-307	5	
		H-410	6	
		H-1109	20	
		H-1243	25-26-27 28-32	
334 4062 00		H-1129	20	5
		H-1221	24-29	
340 0025 00		H-104	3	41
		H-303	5	
		H-403	6	
		H-1101	20-21	
		H-1202	28	
340 0038 00		H-203	4	17
		H-1248	27	
340 0047 00		H-1213	27	1
340 0086 00		H-402	6	8

Part Number	Parts Spare	Reference Symbol Nº	Figure Nº	Total Qty per equipment
		H-502	8	
340 0087 00		H-1105	20	4
340 0090 00		H-411	6	21
		H-523	8	
		H-1103	21	
		H-1204	28	
340 0264 00		O-211 thru O-228	4	18
342 0274 00		H-1164	19	66
342 0276 00		H-423	7	19
		H-1149	20-21	
		H-1264	23	
342 0278 00		H-432	7	2
342 0280 00		H-1299.5	30	4
342 0282 00		H-1217	24-28	21
342 0290 00		H-1299.3	30	4
342 0345 00		H-1241	22-28	4
342 0386 00		H-1253	31	10
342 0392 00		H-1254	32	2
342 0415 00		H-1148	20	14
		H-1279	25	
342 0417 00		H-1160	20	2
		H-1290	26	
342 0423 00		H-1261	33	2
342 0477 00		H-1151	20	4
342 0514 00		H-1233	22	4
343 0170 00		H-1150	20	3
343 0284 00		H-110	3	36
		H-226	4	
		H-308	5	
		H-1280	25	
343 0285 00		H-116	3	38
		H-206	4	
		H-313	5	
		H-1311	34	
343 0286 00		H-117	3	71
		H-228	4	
		H-320	5	
343 0287 00		H-221	4	19
		H-309	5	
343 0288 00		H-122	3	11
		H-215	4	
		H-319	5	
		H-1303	34	
343 0295 00		H-207	4	4
343 0299 00		H-126	3	6
343 0328 00		H-208	4	5
343 0329 00		H-236	4	6
343 0330 00		H-209	4	6

Part Number	Parts Spare	Reference Symbol N°	Figure N°	Total Qty per equipment
343 0381 00		H-229	4	2
		H-316	5	
343 0384 00		H-422	7	9
343 0415 00		H-1171	20	16
343 0416 00		H-612	10	84
		H-812	13	
		H-1124	18	
		H-1222	24-31	
343 0418 00		H-424	6-7	53
		H-616	11	
		H-1125	21-22	
		H-1255	24-26-31-33	
343 0420 00		H-425	6-7	83
		H-505	8	
		H-607	11	
		H-618	10	
		H-805	13	
		H-922	14-15	
		H-1003	17	
		H-1114	21	
343 0422 00		H-412	6	39
		H-514	8	
343 0424 00		H-121	3	38
		H-238	4	
		H-414	6	
		H-531	8	
		H-603	9	
		H-811	13	
		H-1015	16	
		H-1152	20	
		H-1235	23-27-32	
343 0426 00		H-426	6	19
		H-506	8	
		H-1272	23-26-27-29	
343 0428 00		H-417	6	21
		H-1263	31-32-33	
343 0430 00		H-427	6	2
343 0434 00		H-428	6	10
		H-528	8	
		H-1236	24	
343 0454 00		H-240	4	31
		H-1156	21	
		H-1285	23-24	
343 0456 00		H-522	8	12
		H-1166	22	
		H-1237	22	
343 0458 00		H-1294	31-32	18
343 0487 00		H-1273	29	2

Part Number	Parts Spare	Reference Symbol N°	Figure N°	Total Qty per equipment
343 0489 00		H-1234	23-24-25	
			26-29-31	
			32-33	49
343 0491 00		H-1112	21	6
		H-1256	26-33	
343 0493 00		H-118	3	23
		H-615	10	
		H-804	13	
		H-920	14-15	
		H-1007	17	
		H-1214	24	
343 0495 00		H-508	8	12
		H-1154	20	
		H-1274	23-24	
343 0497 00		H-1257	26-31	
			32-33	34
343 0499 00		H-1259	23-33	4
343 0520 00		H-1298	26	2
343 0522 00		H-1147	20	4
343 0524 00		H-1244	28	3
343 0526 00		H-1153	20	10
		H-1247	26-28	
343 0528 00		H-1250	27	2
343 0530 00		H-1249	25-27	
			31-32	30
343 0594 00		H-1275	23	8
343 1565 00		H-515	8	8
		H-611	9	
347 0291 00		H-1173	20	12
347 0328 00		H-1276	29	1
357 2015 00	*	J-1215	23	1
357 2020 00	*	J-1214	23	1
357 3023 00	*	J-1216	23	1
357 8202 00		A-1244	22	1
357 8205 00		A-1242	22	2
357 8206 00		A-1243	22	1
357 9018 00	*	P-402	6	5
		P-502	8	
		P-1201	25	
		P-1204	26	
		P-1205	26	
357 9037 00	*	J-1212	23	1
357 9054 00	*	J-505	8	2
		J-608	9	
357 9106 00	*	J-101	3	1
358 1080 00	*	J-1213	22	1
360 0054 00	*	J-402, J-403, J-404	7	8
		J-502, J-503	8	

Part Number	Parts Spare	Reference Symbol N°	Figure N°	Total Qty per equipment
		J-602, J-603, J-607	9	
360 0055 00	*	J-803	12	4
		J-902	15	
		J-1002, J-1004	17	
360 0056 00	*	J-405	7	5
		J-504	8	
		J-604, J-606	9	
		J-1218	23	
360 0057 00	*	J-605	9	3
		J-903	15	
		J-1003	17	
372 1069 00	*	P-601	9	4
		P-801, P-802	13	
		P-1101	20	
372 1071 00	*	J-1203	31	4
		J-1206	31	
		J-1208	31	
		J-1211	33	
372 1074 00	*	P-101	3	6
		P-201	4	
		P-401	6	
		P-501	8	
		P-1001	16	
		P-1301	34	
372 1076 00	*	J-1201	32	6
		J-1202	26	
		J-1204	32	
		J-1205	32	
		J-1207	31	
		J-1210	32	
372 1079 00	*	P-901	15	1
372 1081 00	*	J-1209	32	1
373 0011 00		H-1161	20	1
373 0053 00		H-1282	25-26	9
373 0079 00		H-914	15	7
		H-1223	22-24	
373 0081 00		H-440	7	27
		H-541	8	
		H-622	9	
		H-820	12	
		H-926	15	
		H-1019	17	
		H-1295	23	
373 1020 00		H-230	4	15
		H-317	5	
		H-431	7	
		H-516	8	
373 1070 00		H-231	4	32

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
		H-1226	24	
373 1080 00		H-434	6	2
		H-517	8	
373 3050 00		H-242	4	9
		H-433	6	
		H-524	8	
		H-1291	24	
373 3070 00		H-608	9	16
		H-808	12	
		H-908	15	
		H-1014	17	
		H-1224	24	
373 3120 00		H-123	3	6
373 5010 00		H-413	6	300
		H-435	6-7	
		H-510	8	
		H-609	9-10-11	
		H-807	13	
		H-906	14-15	
		H-1004	17	
		H-1225	23-24-26-27 29-30-31-32 33	
373 5020 00		H-119	3	139
		H-610	9-10	
		H-802	12-13	
		H-910	14-15	
		H-1008	16-17	
		H-1238	24-25-26-29 31-32-33	
		H-1305	34	
373 5030 00		H-1011	17	44
		H-1245	25-26-27 28-31-32	
373 5040 00		H-816	12	10
		H-907	14	
373 7010 00		H-111	3	169
		H-211	4	
		H-310	5	
		H-1281	25	
		H-1312	34	
380 7020 00		H-212	4	14
373 7040 00		H-1309	34	4
373 8010 00		H-1115	21	8
373 8020 00		H-1113	20-21	5
373 8030 00		H-1159	20	3
373 8070 00		H-1130	20	2
		H-1277	29	

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
373 8500 00		H-1157	21	55
		H-1284	23-24-31-32	
373 0231 00	*	R-1204	24	1
380 0232 00	*	R-1207	24	1
380 0365 00	*	R-1205	24	1
402 0207 00	*	K-901	14	1
410 0076 00	*	K-1101, K-1102, K-1103	20	4
		K-1104	20	
425 0007 00		W-1202	24	3,8 ft
		W-1204 (p/o W-1203)	25	
500 6217 001		H-535	8	2
500 6224 001		H-232	4	2
500 6225 001		H-219	4	3
502 1139 002		O-1104A, O-1105A, O-1106A	20	4
		O-1107A	20	
502 1164 002		H-1170	20	4
502 1671 001		H-418	6	4
502 1673 001		H-1299.4	30	4
502 1825 002		O-1104D, O-1105D, O-1106D	20	4
		O-1107D	20	
502 4800 001		H-237	4	1
502 6005 002	*	O-404, O-405, O-406	6	10
		O-407, O-408, O-409	6	
		O-501 thru O-504	8	
ACEC 502 6375 002		H-617	10	1
502 7029 002	*	O-1104E, O-1104F, O-1105E	20	8
		O-1105F, O-1106E, O-1106F	20	
		O-1107E, O-1107F	20	
502 7030 002	*	O-1135, O-1136	20	2
502 7031 002	*	O-1137	20	1
503 4918 001		A-1122, A-1123, A-1124	20	4
		A-1125	20	
503 4920 001		O-1104B, O-1105B, O-1106B	20	4
		O-1107B	20	
503 4990 001		A-411	7	1
503 5079 002		O-1101	20	4
503 5106 002	*	O-416, O-417, O-418	6	8
		O-419, O-420, O-421	6	
		O-509, O-510	8	
503 7091 002		O-1104C, O-1105C, O-1107C	20	3
504 6785 002		L-601 (p/o T-601)	9	2
		L-603 (p/o T-602)	9	
504 6800 002		L-605 (p/o T-603)	9	2
		L-607 (p/o T-604)	9	
504 6804 003	*	T-602, T-603, T-604	9	3
504 7081 002		O-1110	20	4
		O-1138, O-1142, O-1144	21	
504 7083 002		O-1109	20-21	4

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
504 7089 002		O-1140	21	1
504 7090 002		O-1118	21	1
504 7157 002		O-1113A	20	4
504 7461 001		H-103	3	37
		H-202	4	
		H-302	5	
		H-404	6	
		H-1102	20-21	
		H-1201	28	
504 7462 001		O-1146, O-1149	21	2
504 7463 001		O-1150, O-1153	21	2
504 7464 001		H-1117	20	4
504 7465 001		H-1118	20	2
504 7466 001		H-1119	20	4
504 7467 001		H-1120	20	2
504 7468 001		H-1116	20	4
504 7469 001		O-1116	21	1
504 7470 001		O-1111	21	2
ACEC 504 7471 001		O-1112	21	2
504 7472 002		A-1117	20	4
		A-1118	20	
		A-1119	20	
504 7473 002		H-1139	21	6
504 7475 002		O-1139	21	1
504 7477 002		O-1148, O-1151, O-1152	21	3
504 7478 002		H-406	6	18
		H-521	8	
		H-1104	21	
		H-1203	28	
504 7479 002		O-1143, O-1145	21	2
504 7487 002		O-1141	21	1
504 7488 002		O-1121	21	1
504 7492 002		H-1137	21	2
504 7493 002		O-1130	20	1
504 7494 002		H-1140	21	2
504 7495 002		H-1138	21	2
504 7496 002		H-1136	21	2
504 7497 002		H-1135	21	2
504 7498 002		H-1133	21	4
504 7499 002		H-1106	20	3
504 7500 002		A-1102	20	1
504 7502 002		N-1104	21	1
504 7503 002		N-1103	21	1
504 7504 002		N-1102	21	1
504 7505 002		N-1101	21	1
504 7506 002		O-1102	21	1
504 7507 002		O-1106C	20	1

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
504 7508 002		O-1119 (incl H-1127, O-1138, O-1139)	21	1
504 7509 002		O-1122 (incl H-1127, O-1142, O-1143)	21	1
504 7510 002		O-1123 (incl H-1127, O-1144, O-1145)	21	1
504 7511 002		O-1115	21	2
504 7512 002		O-1117	21	1
504 7513 002		O-1120 (incl H-1127, O-1140, O-1141)	21	1
ACEC 504 7514 002		O-1128	20	1
ACEC 504 7515 002		O-1127	20	1
ACEC 504 7516 002		O-1126	20	1
ACEC 504 7517 002		O-1129	20	1
504 7518 002		O-1103	20	1
504 7525 002		O-1125	20	9
		O-1208	28	
		O-1244	25-27	
		O-1247	25-27	
		O-1250	26-27	
		O-1271	28	
		O-1299.5	28	
504 7528 003		O-1124 (incl H-1128, O-1114A, O-1114B, and O-1146 thru, O-1154)	21	1
504 7531 003		A-1101	20	1
504 7534 005		A-1121	20-21	1
504 7536 005		O-1147	21	1
504 7537 002		H-108	3	27
		O-205	4	
		O-319, O-320, O-321	5	
		O-322	5	
		O-437, O-438	6	
		O-1108A	20	
		O-1203	28	
		O-1220	25-27	
		O-1233	25-27-32	
		O-1246	27	
		O-1249	26-27	
		O-1269	28	
		O-1273	28	
		O-1275	28	
		O-1277	27	
504 7592 001	*	H-1240	22	2
ACEC 504 7683 003		O-1214	23	2
		O-1216	23	
504 7816 003		A-1001	16	1
504 7847 002		H-1239	22	2

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
504 8204 005		1001- 1099 series		
504 8205 003		A-1003	17	1
504 8333 001		A-1110, A-1111, A-1112	18	3
504 8334 001		H-1163	18	2
504 8335 001		A-1104 thru A-1109	18	6
504 8336 002		H-1168	22	2
504 8337 002		N-1105	22	1
504 8340 003		A-1103	18	1
504 8348 003		A-1113	22	1
ACEC 504 8353 005		1101- 1199 series		
504 8577 002		O-901	14	1
504 8578 002		H-918	14	1
ACEC 504 8580 003		A-901	15	1
504 8583 004		901- 999 series		
ACEC 504 8815 002	*	H-120	3	6
504 8874 002		WRENCH		1
504 9165 003		A-903	15	1
ACEC 504 9333 003		A-1201	24	1
504 9444 001		O-507, O-508	8	2
504 9449 001		H-520	8	1
504 9455 002		L-501 (p/o T-501)	8	4
		L-502 (p/o T-501)	8	
		L-503 (p/o T-502)	8	
		L-504 (p/o T-502)	8	
504 9461 002		O-514	8	1
504 9465 002		O-443, O-447, O-451	6	4
		O-519	8	
504 9466 002		O-520	8	1
504 9467 002		O-521	8	1
504 9468 002		A-502	8	1
504 9469 002		A-503	8	1
504 9470 002		A-501	8	1
504 9471 002		A-504	8	1
504 9472 002		O-465	6	2
		O-517	8	
504 9473 002		E-506, E-507, E-508	8	4
		E-509	8	
504 9474 002		E-418	6	2
		E-510	8	
504 9479 002		O-410, O-411, O-412	6	8
		O-413, O-462, O-463	6	
		O-505, O-506	8	
504 9484 003		O-511	8	1
504 9485 003	*	T-501	8	1
504 9489 003	*	T-502	8	1
ACEC 504 9495 004		501- 599 series		
504 9520 002		H-519	8	2
504 9758 003	*	Z-303, Z-305, Z-307	5	4

Part Number	Spare Parts	Reference Symbol Nº	Figure Nº	equipment Total Qty per
		Z-309	5	
505 0028 002	*	Z-302, Z-306	5	2
ACEC 505 0032 002		O-106, O-107, O-108	3	10
		O-109	3	
		O-305, O-306, O-307	5	
		O-308, O-309, O-310	5	
ACEC 505 0033 002		O-104, O-105	3	5
		O-302, O-303, O-304	5	
ACEC 505 0034 002		O-102, O-103	3	5
		O-311, O-312, O-313	5	
505 0035 002		O-101	3	2
		O-301	5	
505 0036 002		H-102	3	13
		H-304	5	
		H-1208	25-26-27	
505 0037 002	*	O-110, O-111	3	4
		O-317, O-318	5	
505 0038 002		H-101	3	11
		H-201	4	
		H-301	5	
505 0039 002		O-112	3	3
		O-204	4	
		O-323	5	
505 0154 002		E-105, E-116	3	2
ACEC 505 0155 002		A-103, A-104	3	2
505 0156 002	*	Z-104	3	1
505 0157 002	*	Z-105	3	1
505 0161 003		A-102	3	1
ACEC 505 0164 003		A-105	3	1
505 0165 003		A-101	3	1
505 0175 004		101- 199 series		
505 0418 001		H-415	6	2
505 0419 001		E-416, E-417	6	2
505 0422 002	*	E-420	6	1
505 0429 002		A-417	6	1
505 0431 002		O-403	6	1
505 0433 002		O-444	6	1
505 0434 002		O-448	6	1
505 0435 002		O-453	6	1
505 0437 002		O-452	6	1
505 0444 002		O-441, O-442	6	2
505 0445 002		O-434, O-435	6	2
505 0448 002		O-449	6	1
505 0449 002		O-450	6	1
505 0450 002		O-445	6	1
505 0451 002		O-446	6	1
505 0452 002		O-454	6	1
505 0453 002		O-455	6	1

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
505 0457 002		A-402	6	1
505 0460 002		L-402 (p/o T-401)	6	4
		L-403 (p/o T-401)	6	
		L-404 (p/o T-402)	6	
		L-405 (p/o T-402)	6	
505 0461 002		L-407 (p/o T-403)	6	2
		L-408 (p/o T-403)	6	
505 0464 002		O-440	6	1
505 0465 002		A-415	6	1
505 0466 002		A-414	6	1
505 0467 002		A-403	6	1
505 0469 002		A-404	6	1
505 0472 002		A-405	6	1
505 0473 002		A-406	6	1
505 0475 002		A-407	6	1
505 0477 002		O-433	6	1
505 0478 002		A-409	6	1
505 0479 002		E-405, E-406, E-407	6	6
		E-408, E-409, E-410	6	
505 0480 002		O-422	6	1
505 0481 002		O-464	7	1
505 0482 002		O-436	6	3
		O-1204	28	
		O-1274	32	
505 0483 002		O-439	6	9
		O-1207	27	
		O-1245	27	
		O-1248	27	
		O-1251	25	
		O-1270	25-26	
		O-1282	25	
		O-1283	25	
		O-1284	25	
505 0497 003		O-432	6	1
505 0498 003		O-431	6	1
505 0499 003		O-430	6	1
505 0500 003		O-402	6	1
505 0501 003		O-401	6	1
505 0502 003	*	T-401, T-402	6	2
505 0503 003	*	T-403	6	1
505 0504 003		A-416	6	1
505 0506 003		A-412	6	1
505 0507 003		A-413	6	1
505 0508 003		A-408	6	1
505 0512 004		A-401	6	1
ACEC 505 0513 005		401- 499 series		
505 0565 002		O-1299.8	27	2
		O-1299.9	27	

Part Number	Spare Parts	Reference Symbol Nº	Figure Nº	Total Qty per equipment
505 0568 002		O-1299.6	27	2
		O-1299.7	27	
505 0572 002		H-1207	27	10
505 0581 002		H-1209	27	2
505 0583 002		O-1231	27	5
		O-1236	27	
		O-1257	27	
		O-1258	27	
		O-1261	27	
505 0586 002		O-1221	27	1
505 0588 002	*	O-1218	27	1
505 0591 002		O-1259	27	1
505 0592 002		O-1229	27	1
505 0593 002		O-1255	27	1
505 0594 002		O-1234	27	1
505 0595 002		N-1201	27	1
505 0596 002		O-1252	27	7
		O-1253	27	
		O-1254	27	
		O-1256	27	
		O-1260	27	
		O-1262	27	
		O-1285	27	
505 0598 002		O-1263	27	1
505 0599 002		O-1240	27	1
505 0601 002		H-1211	27	2
505 0602 002		H-1212	27	4
505 0604 002		H-1210	27	1
505 0605 002		O-1241	27	1
505 0607 002		O-1230	27	1
505 0609 002		O-1235	27	1
505 0610 002		O-1239	27	1
505 0611 002		O-1227	27	1
ACEC 505 0612 002		O-1223	27	2
		O-1225	27	
505 0613 002		O-1217	27	1
505 0614 002		O-1219	27	1
ACEC 505 0616 002		O-1224	27	1
505 0620 003		O-1293	27	1
ACEC 505 0644 004		O-1294	27	1
505 0669 005		A-1218	33	1
505 0670 001		H-311	5	3
505 0671 002		O-314, O-315	5	2
505 0672 002		O-316	5	1
ACEC 505 0673 002		A-302	5	1
505 0674 002		A-308	5	1
505 0675 002		A-306	5	1
505 0676 002		A-304	5	1

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
505 0677 002	*	Z-304, Z-308	5	2
505 0680 003		A-305	5	1
505 0681 003		A-307	5	1
505 0684 003		A-303	5	1
505 0688 003		A-301	5	1
505 0702 005		301-399 series		
505 0714 001		O-1281	33	1
ACEC 505 0716 002		H-1246	28	3
ACEC 505 0717 002		A-1216	33	1
505 0718 002		O-1202	28	1
505 0719 002		O-1205	28	2
		O-1268	28	
505 0720 002		O-1210	28-33	1
505 0721 002		O-1299.4	28	1
505 0722 002		A-1209	28	1
505 0723 002		O-1206B	28	2
		O-1272B	28	
505 0724 002		O-1267	28	1
505 0725 002		H-1227	24	4
505 0726 002		N-1203	28	3
		N-1204	28	
		N-1205	28	
505 0727 002		O-1264	32	2
		O-1265	32	
505 0730 002	*	O-1297	31	6
		O-1298	31	
		O-1299	31	
		O-1299.1	32	
		O-1299.2	32	
		O-1299.3	32	
505 0732 002		A-1220	31	18
		A-1221	31	
		A-1222	31	
		A-1223	32	
		A-1224	32	
		A-1225	32	
		A-1246	31	
		A-1247	31	
		A-1248	31	
		A-1249	31	
		A-1250	31	
		A-1251	31	
		A-1252	32	
		A-1253	32	
		A-1254	32	
		A-1255	32	
		A-1256	32	
		A-1257	32	

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
505 0733 002		O-1211	33	1
505 0734 003		A-1215	33	1
ACEC 505 0739 004		A-1211	32	1
ACEC 505 0740 004		A-1212	32	1
505 0741 004		A-1213	32	1
505 0742 004		A-1214	32	1
505 0744 004		A-1210	28	1
505 0749 001		H-1289	24	2
505 0750 001		H-1216	22	2
505 0755 002		A-1229	33	1
505 0756 002		A-1230	32	1
505 0757 002		A-1228	31	1
ACEC 505 0759 002		A-1202	22	1
505 0760 002		N-1202	23	1
505 0764 002		A-1232	32	1
505 0765 002		A-1233	32	1
505 0767 002	*	E-1208 thru E-1219	24	12
ACEC 505 0768 002		A-108	3	14
		A-310	5	
		E-1220 thru E-1231	24	
505 0770 003		A-1203	24	1
505 0774 003		A-1207	24	1
505 0779 003		A-1234	29	1
505 0780 003		A-1235	25	1
505 0781 003		A-1206	24	2
505 0782 003		A-1205	24	2
505 0787 004		A-1236	24	1
505 0793 002		H-401	6	13
		H-501	8	
505 0824 004	*	Z-301	5	1
505 0825 002	*	WRENCH 5		1
505 0826 002		H-1299	30	1
505 0827 002		H-801	12	4
505 0828 002		H-601	9	10
		H-1001	16	
		H-1301	34	
505 0829 002		H-901	15-25	3
505 0830 002		H-902	15-25	2
505 0831 002		A-1239	29	1
505 0832 002		E-1233	25	2
		E-1234	25	
505 0833 003	*	TOOL 6		1
505 0834 003		H-1299.1	30	1
505 0835 003		H-1299.2	30	1
505 0840 004		A-1241	25-30	1
505 0842 004		201-299 series		
505 0856 001		A-208	4	1
505 0861 002		A-201	4	1

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
505 0864 002		O-210	4	1
505 0866 002		H-213	4	1
505 0867 002		O-208	4	1
505 0868 002		O-209	4	1
505 0869 002		H-214	4	2
505 0870 002		E-205, E-206	4	2
505 0871 002		E-207	4	1
505 0873 002		H-233	4	2
505 0874 002		O-202	4	1
505 0876 002		E-209	4	1
505 0877 002		E-210	4	1
505 0878 002		E-208	4	1
505 0879 002		E-211	4	1
505 0880 002		A-204	4	1
505 0882 002		A-205	4	1
505 0885 002		H-222	4	6
505 0886 002	*	L-226, L-227, L-237,	4	5
		L-238, L-239	4	
505 0887 002	*	L-224, L-225, L-234,	4	5
		L-235, L-236	4	
505 0888 002	*	L-223, L-232, L-233	4	3
505 0890 002	*	L-222, L-228, L-229,	4	5
		L-230, L-231	4	
505 0892 002		O-201	4	1
505 0893 003		A-203	4	1
505 0894 003		A-202	4	1
505 0897 003		O-229	4	1
505 0898 003	*	E-217	4	3
505 0901 003		E-215	4	1
505 0902 003		A-206	4	1
505 0904 003		A-207	4	1
505 0916 005		A-1219	33	1
505 0918 002		O-203	4	1
505 0928 002		H-529	8	4
505 1458 001		A-603	9	1
505 1465 001		A-1115	20	1
505 1466 001		A-902	15	1
505 1481 003	*	T-601	9	1
505 1499 001		A-1004	16	1
505 1500 002		H-1258	33	2
505 1713 001		A-107	3	1
505 1739 001		A-505	8	1
505 1830 001		A-410	6	1
505 1836 002	*	Z-401, Z-402	7	2
505 1853 002	*	E-312	5	1
505 1855 002		A-309	5	1
505 2061 003		A-1002	17	1
505 2062 003		N-1001	17	1

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
505 2064 002		H-1013	17	1
ACEC 505 2065 002		H-924	15	1
505 2311 002		O-518	8	1
ACEC 505 2327 002		H-620	10	1
505 2390 003		N-201	4	1
505 2460 002		H-1310	34	1
505 2699 002		H-1283	29	1
505 2720 001		A-803	13	1
505 2721 001		A-804	13	1
505 2723 001		H-223	4	4
505 2727 003		N-301	5	1
505 3750 001		O-1290	27	1
505 3751 002		O-1238	27	1
505 3753 002		O-1286	27	1
505 3754 002		O-1287	27	2
		O-1288	27	
505 3756 002		O-1291	27	1
505 3819 002		L-101	3	1
505 3820 003	*	Z-101, Z-102, Z-103	3	3
505 3971 002		O-1222	27	7
		O-1226	27	
		O-1228	27	
		O-1232	27	
		O-1237	27	
		O-1242	27	
		O-1289	27	
505 4382 002		TB-1201	26	2
		TB-1202	26	
505 4385 002	*	L-1201	26	1
505 4386 002	*	L-1202	26	3
		L-1203	26	
		L-1204	26	
505 5038 001		H-818	12	3
505 5793 002		E-1232	24	1
505 5798 003		A-801	12	1
505 5799 003		A-602	11	1
ACEC 505 5805 004		A-601	9	1
ACEC 505 5809 004		N-601	11	1
ACEC 505 5818 005		601- 699 series		
505 7214 002		O-1154	21	1
505 7215 002		O-1155	21	1
505 7216 002		O-1156	21	1
505 7963 002	*	E-110	3	2
		E-311	5	
505 8180 003		N-901	15	1
505 8181 002		A-802	13	1
ACEC 505 8183 003		A-1231	31	1
505 8187 004		N-801	13	1

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
ACEC 505 8189 004		A-1240	22	1
505 8191 004		A-1245	24	1
505 8193 005		801- 899 series		
505 8196 005		A-1204	23-24	1
505 8202 003		A-1237	32	1
505 8203 003		A-1238	32	1
505 8459 002		A-506	8	1
505 8534 002		A-1005	17	1
ACEC 505 8535 002		W-1201	24	1
ACEC 505 8549 002	*	W-1203	25	1
505 9017 004		N-401	6	1
505 9205 002		A-1259	26	1
505 9206 002		A-1258	26	1
505 9208 001		H-1174	21	6
505 9420 002		N-101	3	1
505 9940 003		A-106	3	1
506 3997 003		N-501	8	1
506 6887 002		H-1296	28	2
507 5618 00		O-457, O-458, O-459	6	29
		O-460, O-461	6	
		O-515, O-516	8	
		O-1114A	20-21	
		O-1201B	28	
		O-1266B	28	
		O-1276B	28	
		O-1278B	28	
		O-1280B	28	
		O-1292B	28	
507 5779 00		H-1144	20	4
507 6744 00		H-1006	17	1
507 6860 00		H-419	6	2
		H-503	8	
508 1103 20		E-1112	20	4
		E-1201	22-23	
540 7364 004		HR-201	4	1
ACEC 672 0380 00	*	T-902	14	1
ACEC 672 0393 00	*	T-901	14	1
677 0335 00	*	T-801	12	1
677 0338 00	*	T-802	12	1
678 0341 00	*	L-801	12	1
678 0389 00	*	L-1002	16-17	1
678 0390 00	*	L-1001	16	1
707 9213 00	*	R-101, R-105	3	6
		R-310, R-312, R-314	5	
		R-402	7	
745 1016 00	*	R-205	4	1
745 1030 00	*	R-415	7	1

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
745 1044 00	*	R-815, R-816, R-819	13	4
		R-820	13	
745 1058 00	*	R-507	8	1
745 1065 00	*	R-202, R-203	4	3
		R-503	8	
745 1069 00	*	R-645	11	1
745 1072 00	*	R-610	11	4
		R-803, R-817, R-818	13	
745 1086 00	*	R-802	13	1
745 1100 00	*	R-505	8	5
		R-625, R-627, R-628	11	
		R-640	11	
745 1110 00	*	R-418	7	1
745 1113 00	*	R-417	7	1
745 1114 00	*	R-1206	24	1
745 1121 00	*	R-411	7	1
745 1128 00	*	R-305	5	1
745 1132 00	*	R-615	11	1
745 1135 00	*	R-639	11	1
745 1139 00	*	R-304, R-309	5	2
745 1142 00	*	R-302, R-307	5	3
		R-508	8	
745 1146 00	*	R-613	11	1
745 1149 00	*	R-404, R-408	7	5
		R-614	11	
		R-806	13	
		R-1002	17	
745 1153 00	*	R-621	11	1
745 1156 00	*	R-510	8	5
		R-618, R-650, R-651	11	
		R-1208	24	
745 1160 00	*	R-412	7	2
		R-620	11	
745 1162 00	*	R-655	11	1
745 1163 00	*	R-601, R-619	11	2
745 1167 00	*	R-811, R-812, R-813	13	4
		R-814	13	
745 1169 00	*	R-629	11	3
		R-801, R-808	13	
745 1170 00	*	R-106, R-107	3	16
		R-301, R-306	5	
		R401, R-407, R-410	7	
		R-501, R-506	8	
		R-602, R-606, R-641	11	
		R-652, R-653	11	
		R-804, R-805	13	
745 1174 00	*	R-807	13	1

Part Number	Parts Spare	Reference Symbol Nº	Figure Nº	Total Qty per equipment
745 1176 00	*	R-654	11	1
745 1177 00	*	R-603, R-607	11	2
745 1184 00	*	R-103	3	6
		R-303, R-308	5	
		R-511	8	
		R-622, R-637	11	
745 1188 00	*	R-413	7	2
		R-623	11	
745 1191 00	*	R-642	11	3
		R-1003	17	
		R-1213	33	
745 1198 00	*	R-102	3	11
		R-419	7	
		R-616, R-624, R-626	11	
		R-630, R-638, R-644	11	
		R-647	11	
		R-809	13	
		R-1214	24	
745 1205 00	*	R-1211	24	1
745 1209 00	*	R-502	8	1
745 3104 00	*	R-509	8	2
		R-612	11	
745 3120 00	*	R-414	7	1
745 3128 00	*	R-201	4	1
745 3149 00	*	R-504	8	1
745 3152 00	*	R-1001	17	1
745 3153 00	*	R-405	7	1
745 3156 00	*	R-611	11	1
745 3163 00	*	R-409	7	1
745 9076 00	*	R-617	11	1
745 9125 00	*	R-605	11	2
		R-609	11	
745 9128 00	*	R-416	7	1
745 9129 00	*	R-104, R-108	3	4
		R-204	4	
		R-646	11	
745 9150 00	*	R-604, R-608	11	2
745 9153 00	*	R-1209	24	1
745 9167 00	*	R-311, R-313, R-315	5	4
		R-643	11	
746 4066 00	*	R-1210	33	1
747 1129 00	*	R-1101, R-1102, R-1103	20	4
		R-1104	20	
747 5090 00	*	R-810	13	1
912 0667 00	*	C-105, C-106, C-108	3	20
		C-112, C-113, C-115	3	
		C-302, C-303, C-304	5	
		C-306, C-309, C-310	5	

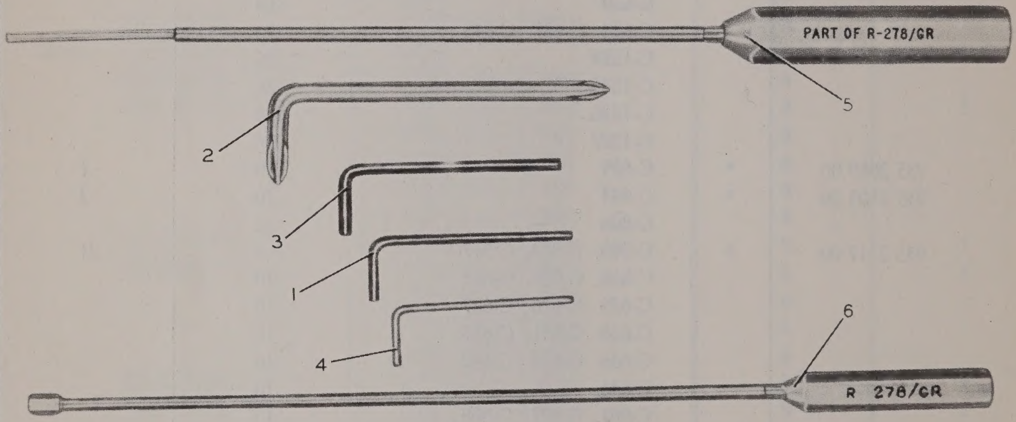
Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
		C-311, C-312, C-316	5	
		C-318, C-320, C-321	5	
		C-324, C-325	5	
912 0717 00	*	C-201	4	11
		C-305	5	
		C-401, C-402, C-405	7	
		C-413, C-419, C-423	7	
		C-426, C-427, C-429	7	
912 0937 00	*	C-411, C-430	7	2
913 0371 00	*	C-1207	24	14
		C-1208	24	
		C-1209	24	
		C-1210	24	
		C-1211	24	
		C-1212	24	
		C-1213	24	
		C-1214	24	
		C-1215	24	
		C-1216	24	
		C-1217	24	
		C-1218	24	
		C-1220	24	
		C-1221	24	
913 1292 00	*	C-204, C-205	4	9
		C-409, C-410	7	
		C-412	6	
		C-518, C-519	8	
		C-1204, C-1205	24	
916 0075 00	*	C-103, C-110, C-117	3	8
		C-313, C-315, C-319	5	
		C-323, C-327	5	
916 0113 00	*	C-101	3	2
		C-308	5	
916 4362 00	*	C-307	5	1
917 1053 00		C-403 (p/o T-401)	6	6
		C-407 (p/o T-401)	6	
		C-414 (p/o T-402)	6	
		C-417 (p/o T-402)	6	
		C-421 (p/o T-403)	6	
		C-425 (p/o T-403)	6	
ACEC 928 0067 00	*	C-431, C-432, C-433	7	3
ACEC 928 0075 00	*	C-651	10	1
ACEC 928 0114 00	*	C-613	10	1
ACEC 928 0211 00	*	C-649	10	2
		C-652	10	
928 0298 00		C-424 (p/o T-403)	6	1
928 0299 00		C-422 (p/o T-403)	6	1
ACEC 928 0413 00	*	C-203	4	1

Part Number	Spare Parts	Reference Symbol N°	Figure N°	Total Qty per equipment
ACEC 928 0540 00	*	C-516	8	1
ACEC 928 0627 00	*	C-520, C-521	8	2
ACEC 928 4003 00	*	C-420	7	3
		C-619	10	
		C-640	10	
ACEC 928 4059 00	*	C-202	4	1
ACEC 928 4180 00	*	C-301	5	2
		C-641	10	
ACEC 928 4188 00	*	C-107, C-114	3	8
		C-314, C-317, C-322	5	
		C-326	5	
		C-408, C-418	7	
ACEC 928 4352 00	*	C-207	4	1
ACEC 928 4361 00	*	C-510, C-514	8	2
ACEC 928 4362 00	*	C-428	7	2
		C-629	10	
928 4628 00		C-502 (p/o T-501)	8	1
ACEC 928 4657 00	*	C-623	10	1
928 4671 00		C-501 (p/o T-501)	8	
928 4681 00		C-503 (p/o T-501)	8	5
		C-505 (p/o T-502)	8	
		C-506 (p/o T-502)	8	
		C-507 (p/o T-502)	8	
		C-508 (p/o T-502)	8	
928 4757 00		C-601 (p/o T-601)	9	1
928 4853 00		C-404 (p/o T-401)	6	4
		C-406 (p/o T-401)	6	
		C-415 (p/o T-402)	6	
		C-416 (p/o T-402)	6	
928 4873 00		C-504 (p/o T-501)	8	1
928 7135 00		C-603 (p/o T-601)	9	7
		C-605 (p/o T-602)	9	
		C-607 (p/o T-602)	9	
		C-609 (p/o T-603)	9	
		C-611 (p/o T-603)	9	
		C-615 (p/o T-604)	9	
		C-617 (p/o T-604)	9	
928 7185 00		C-604 (p/o T-601)	9	7
		C-606 (p/o T-602)	9	
		C-608 (p/o T-602)	9	
		C-610 (p/o T-603)	9	
		C-612 (p/o T-603)	9	
		C-614 (p/o T-604)	9	
		C-616 (p/o T-604)	9	
928 7255 00		C-602 (p/o T-601)	9	1
930 0244 00	*	C-1303	34	1
930 0352 00	*	C-802	12	1
931 0461 00	*	C-1101, C-1102, C-1103	21	4

Part Number	Parts Spare	Reference Symbol N°	Figure N°	Total Qty per equipment
		C-1104	21	
931 0463 00	*	C-1001, C-1002	17	2
931 0793 00	*	C-630	10	1
931 0795 00	*	C-638	10	1
931 0860 00	*	C-901, C-902, C-903	15	4
		C-904	15	
931 0883 00	*	C-644, C-648	10	2
931 0885 00	*	C-647	10	1
931 0942 00	*	C-905	15	1
935 0099 00	*	C-804	13	1
935 0106 00	*	C-515	8	2
		C-650	10	
935 0119 00	*	C-632	10	1
935 0120 00	*	C-805	13	1
935 0134 00	*	C-511, C-512	8	10
		C-620	10	
		C-624, C-637, C-645	10	
		C-1224	26	
		C-1225	26	
		C-1226	26	
		C-1227	26	
935 2089 00	*	C-635	10	1
935 2103 00	*	C-643	10	2
		C-806	13	
935 2117 00	*	C-509, C-513, C-517	8	21
		C-618, C-621, C-622	10	
		C-625, C-626, C-627	10	
		C-628, C-631, C-633	10	
		C-636, C-639, C-642	10	
		C-646	10	
		C-801, C-807, C-808	13	
		C-809	13	
		C-1222	24	
935 2118 00		C-206, C-208	4	2
935 4053 00	*	C-803	13	1
935 4060 00	*	C-810	13	1
961 3002 00	*	C-1003, C-1004, C-1005	16-17	3
961 4123 00	*	C-1223	33	1
961 5116 00	*	C-1202	33	1
961 7153 00	*	C-634	9	1
961 7193 00	*	C-1304	34	1
961 7194 00	*	C-1006	17	2
		C-1007	16-17	
962 4236 00	*	C-1301, C-1302	34	2
974 0001 00	*	K-802	12	1
974 0011 00	*	K-801	12	1
974 0046 00	*	K-1201	33	1
974 0048 00	*	K-1202	33	1

Section 4 - Special Tool List

Stock Number	Description	Source Code
7900 PE- 719 200	1. — WRENCH, SOCKET HEAD SCREW : for #8 screw; 1-31/32" lg × 45/64" at 90 deg; hardened steel; 90 deg; no handle; special for #8 Bristol set screw; - Collins Rad part/dwg #024 0019 00	
7900 PE 719 250	2. — SCREWDRIVER, OFFSET : Phillips drive: one blade 3-1/4" lg, other blade 1" lg; 3-1/4" lg o/a; 0. 188" diam round shank; #1 Phillips head both ends; no handle; bent at 90 deg, 1" from one end; - Collins Rad part/dwg #024 3000 00	
7900 PE- 719 205	3. — WRENCH, SOCKET HEAD SCREW : for #10 screw; 2-3/32" lg × 3/4" at 90 deg; hardened steel; 90 deg; no handle; special for #10 Bristol set screw; - Collins Rad part/dwg #024 9710 00	



Stock Number	Description	Source Code
7900 PE- 719 210	4. — WRENCH, SOCKET HEAD SCREW : for #6 screw; 1-27/32" lg × 31/32" wd × 0. 076" OD; hardened steel; 90 deg; no handle; special for #6 Bristol set screw: Collins Rad part/dwg # 024 9730 00	
7900 PE- ~~719 410~~ 719 411	5. — WRENCH, SOCKET HEAD SCREW : 9.562" lg x 1/2" wd across flats; 17S-T4 aluminum handle, anodized finish type #303 SS shaft, passivated finish, hardened steel wrench; straight; hex handle; special for #8 Bristol set screw; « PART OF R-278/GR » metal stamped in 3/32" h characters on handle; - Collins Rad part/dwg #505 0825 002	
7900 PE- ~~710 431~~ 710 430	6. — ALIGNMENT TOOL, ELECTRONIC EQUIPMENT, UNINSULATED : type #303 SS, passivated finish; 9. 640" lg × 5/18'6" wd across flats; hex handle on one end, bit w/ 0. 015" wd × 0. 050" h blade on other end, covered by guide sleeve; bit, sleeve and shaft silver soldered together; « PART OF R-278/GR » metal stamped in 3/32" h characters on handle; handle pressed on shaft; - Collins Rad part/dwg #505 0833 003	

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